```
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
```

```
9, 2005, 15:27:47 ; Search time 583 Seconds (without alignments) 2275.470 Million cell updates/sec
                                                                                                                          214
                                                                                                                    1 MNSTKSPASHHTERGCFKNS.....IPCFYSMPWICEMPEISPLD
nucleic search, using frame_plus_p2n model
                                                                                                                                                                                                                                                  6046767 segs, 3099530249 residues
                                                                                                                                                                      0.5
                                                                                                                                                                    Xgapop 10.0 , Xgapext
Ygapop 10.0 , Ygapext
Fgapop 6.0 , Fgapext
Delop 6.0 , Delext
                                                                                        US-10-812-620-2
                                                                                                                                                       BLOSUM62
                              June
                                                                                                     Perfect score:
Sequence:
                                                                                                                                                       Scoring table:
ı
OM protein
                                                                                                                                                                                                                                                    Searched:
                              Run on:
```

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
Command line parameters:

of hits satisfying chosen parameters:

Total number

Minimum DB seq length: 0 Maximum DB seq length: 200000000 Command line parameters:
-MODEL=frame+ p2n.model -DEV=xlh
-Q=/Cgp2 1/USPTQ_gppol/US10812620/runat_07062005_124340_3366/app_query.fasta_1.391
-Q=/Cgp2 1/USPTQ_gppol/US10812620/runat_07062005_124340_3366/app_query.fasta_1.391
-QB=Published Applications NA -QFMT=fastap -SUFFIX=p2n.rnpb -MINMATCH=0.1
-LCOPCL=0 -LOOPEXT=0 -UNIT\$=bits -START=1 -END=-1 -MATRIX=blosum62
-TRANS=human40.cdi -LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100
-MAXIEN=0.000000000 -USER=US10812620_@CGN 1 1 624 @runat_07062005_124340_3366
-NCPG=6 -LCOPU=3 -NO MMAP -LARGEQUERY -NEG SCORE=0 -WAIT_059BLOCK=100
-LONGLOG -DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -SCAPOP=10 -XGAPEXT=0.5
-FGAPOP=6 -FGĀPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOPE6 -DELEXT=7

```
Database: Published Applications NA:*

1: /cgn2_6/ptodata/1/pubpna/USO7_PUBCOMB.seq:*
2: /cgn2_6/ptodata/1/pubpna/USO7_PUBCOMB.seq:*
3: /cgn2_6/ptodata/1/pubpna/USO6_NEW_PUB.seq:*
4: /cgn2_6/ptodata/1/pubpna/USO6_NEW_PUB.seq:*
5: /cgn2_6/ptodata/1/pubpna/USO6_NEW_PUB.seq:*
6: /cgn2_6/ptodata/1/pubpna/USO6_NEW_PUB.seq:*
7: /cgn2_6/ptodata/1/pubpna/USO8_PUBCOMB.seq:*
8: /cgn2_6/ptodata/1/pubpna/USO8_PUBCOMB.seq:*
9: /cgn2_6/ptodata/1/pubpna/USO8_PUBCOMB.seq:*
10: /cgn2_6/ptodata/1/pubpna/USO8_PUBCOMB.seq:*
11: /cgn2_6/ptodata/1/pubpna/USO8_PUBCOMB.seq:*
12: /cgn2_6/ptodata/1/pubpna/USO9_PUBCOMB.seq:*
13: /cgn2_6/ptodata/1/pubpna/USO9_PUBCOMB.seq:*
14: /cgn2_6/ptodata/1/pubpna/USO9_PUBCOMB.seq:*
15: /cgn2_6/ptodata/1/pubpna/USO9_PUBCOMB.seq:*
15: /cgn2_6/ptodata/1/pubpna/USO08_PUBCOMB.seq:*
17: /cgn2_6/ptodata/1/pubpna/USO08_PUBCOMB.seq:*
18: /cgn2_6/ptodata/1/pubpna/USO08_PUBCOMB.seq:*
19: /cgn2_6/ptodata/1/pubpna/USO08_PUBCOMB.seq:*
20: /cgn2_6/ptodata/1/pubpna/USO08_PUBCOMB.seq:*
21: /cgn2_6/ptodata/1/pubpna/USO08_PUBCOMB.seq:*
22: /cgn2_6/ptodata/1/pubpna/USO08_PUBCOMB.seq:*
23: /cgn2_6/ptodata/1/pubpna/USO08_PUBCOMB.seq:*
24: /cgn2_6/ptodata/1/pubpna/USO08_PUBCOMB.seq:*
25: /cgn2_6/ptodata/1/pubpna/USO08_PUBCOMB.seq:*
24: /cgn2_6/ptodata/1/pubpna/USO08_PUBCOMB.seq:*
25: /cgn2_6/ptodata/1/pubpna/USO08_PUBCOMB.seq:*
26: /cgn2_6/ptodata/1/pubpna/USO08_PUBCOMB.seq:*
26: /cgn2_6/ptodata/1/pubpna/USO08_PUBCOMB.seq:*
26: /cgn2_6/ptodata/1/pubpna/USO08_PUBCOMB.seq:*
26: /cgn2_6/ptodata/1/pubpna/USO08_PUBCOMB.seq:*
26: /cgn2_6/ptodata/1/pubpna/USO08_PUBCOMB.seq:*
27: /cgn2_6/ptodata/1/pubpna/USO08_PUBCOMB.seq:*
28: /cgn2_6/ptodata/1/pubpna/USO08_PUBCOMB.seq:*
29: /cgn2_6/ptodata/1/pubpna/USO08_PUBCOMB.seq:*
20: /cgn2_6/ptodata/1/
```

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

997 9 US-09-966-529-40 Sequence 3 997 9 US-09-909-310-376 Sequence 3 997 9 US-09-909-310-376 Sequence 3 997 9 US-09-909-310-376 Sequence 3 997 9 US-09-9012-83-376 Sequence 3 997 9 US-09-9012-83-376 Sequence 3 997 9 US-09-9012-83-376 Sequence 3 997 10 US-09-904-011-376 Sequence 3 997 10 US-09-904-013-376 Sequence 3 997 10 US-09-904-013-013-013-013-013-013-013-013-013-013	777 65.6 96.10 US-9-966-6004-0 Sequence 40. 774 65.6 997 9 US-0-9-965-6004-0 Sequence 176. 774 65.6 997 9 US-0-9-96-6004-0 Sequence 176. 774 65.6 997 9 US-0-9-978-291-76 Sequence 176. 774 65.6 997 9 US-0-9-978-291-76 Sequence 176. 774 65.6 997 10 US-0-907-81-76 Sequence 176. 774 65.6 997 10 US-0-907-81-76 Sequence 176. 774 65.6 997 10 US-0-907-91-76 Sequence 176. 774 65.6 997 10 US-0-90-908-10-76 Sequence 176. 774 65.6 997 10 US-0	Result No.	Score	tc	-، ب		SUMMARIES	cription
774 65.6 997 9 105.09.900.0888.776 Sequence 376, 774 65.6 997 9 105.09.900.0888.776 Sequence 376, 774 65.6 997 9 105.09.900.988.776 Sequence 376, 774 65.6 997 9 105.09.900.988.776 Sequence 376, 774 65.6 997 9 105.09.900.9774 65.6 997 10 105.09.907.841.376 Sequence 376, 774 65.6 997 10 105.09.907.841.376 Sequence 376, 774 65.6 997 10 105.09.907.841.376 Sequence 376, 774 65.6 997 10 105.09.907.841.376 Sequence 377 774 65.6 997 10 105.09.907.841.376 Sequence 377 774 65.6 997 10 105.09.907.942.376 Sequence 37	## 777 65.6 979 10.80 979 978	H 67 6	774		96		US-10-812-620-1 S-09-965-529-40	Sequence 1, equence 40,
5 774 65.6 997 9 US-099-090BB-376 Sequence 376, 974 65.6 997 9 US-099-905-831-376 Sequence 376, 974 65.6 997 9 US-09-907-814-376 Sequence 376, 97 9 US-09-907-814-376 Sequence 376, 99 9 US-09-907-814-376 Sequence 376, 99 9 US-09-907-814-376 Sequence 376, 99 9 US-09-907-813-376 Sequence 376, 99 9 US-09-906-914-376 Sequence 376, 99 9 US-09-907-813-376 Sequence 376, 99 9 US-09-907-913-376 Sequence 376, 99 9 US-0	5 774 65.6 997 9 US-09-088B-176 Sequence 376, 65 6 997 9 US-09-980-088B-176 Sequence 376, 774 65.6 997 9 US-09-990-088B-176 Sequence 376, 97 774 65.6 997 9 US-09-990-88B-176 Sequence 376, 97 774 65.6 997 9 US-09-907-841-376 Sequence 376, 97 774 65.6 997 10 US-09-908-908-908-908-908-908-908-908-908-	.) 4r	774	'n.	ο σ		US-U9-969-68UA-4 S-09-909-320-376	sequence 40, equence 376,
7.74 65.6 997 9 US-09-902-833-376 Sequence 376 8 774 65.6 997 9 US-09-907-813-376 Sequence 376 9 10 US-09-907-813-376 Sequence 376 Sequence 376 174 65.6 997 10 US-09-907-813-376 Sequence 376 174 65.6 997 10 US-09-904-011-376 Sequence 376 174 65.6 997 10 US-09-906-03-376 Sequence 376 174 65.6 997 10 US-09-906-03-376 Sequence 376 174 65.6 997 10 US-09-907-613-376 Sequence 376 174 65.6 997 10 US-09-907-613-376 Sequence 376 174 65.6 997 10 US-09-907-204-376 Sequence 376 174 65.6 997 10 US-09-904-204-376 Sequence 376 174 65.6 997 10 US-09-904-478-376 Sequence 376 174 <td> 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,</td> <td>ហ</td> <td>774</td> <td>ú,</td> <td>σ,</td> <td>σ,</td> <td>S-09-909-088B-37</td> <td>equence 376,</td>	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	ហ	774	ú,	σ,	σ,	S-09-909-088B-37	equence 376,
774 65.6 997 9 US-09-907-824-376 Sequence 376, 65.6 997 10 US-09-907-81-376 Sequence 376, 65.6 997 10 US-09-907-81-376 Sequence 376, 65.6 997 10 US-09-908-61-376 Sequence 377, 65.6 997 10 US-09-908-208-376 Sequence 377, 65.6 997 10 US-09-908-208-376 Sequence 377, 65.6 997 10 US-09-908-208-376 Sequence 377, 65.6 997 10 US-09-908-379, 65-609-376 Sequence 377, 65.6 997 10 US-09-908-376 Sequence 377, 65.6 997	## 174 65 6 937 9 102-03-977-641-376 Sequence 376 11 774 65 6 937 9 105-03-977-641-376 Sequence 376 11 774 65 6 937 10 18-03-904-011-376 Sequence 376 11 774 65 6 937 10 18-03-904-011-376 Sequence 376 12 774 65 6 937 10 18-03-904-011-376 Sequence 376 12 774 65 6 937 10 18-03-904-011-376 Sequence 376 12 774 65 6 937 10 18-03-904-011-376 Sequence 376 12 774 65 6 937 10 18-03-906-64-376 Sequence 376 12 774 65 6 937 10 18-03-906-64-376 Sequence 376 12 774 65 6 937 10 18-03-906-64-376 Sequence 376 12 774 65 6 937 10 18-03-906-64-376 Sequence 376 12 774 65 6 937 10 18-03-906-64-376 Sequence 376 12 774 65 6 937 10 18-03-906-64-376 Sequence 376 12 774 65 6 937 10 18-03-906-64-376 Sequence 376 12 774 65 6 937 10 18-03-906-64-376 Sequence 376 12 774 65 6 937 10 18-03-906-64-376 Sequence 376 12 774 65 6 937 10 18-03-906-64-376 Sequence 376 12 774 65 6 937 10 18-03-906-64-376 Sequence 376 12 774 65 6 937 10 18-03-906-96-376 Sequence 376 12 774 65 6 937 10 18-03-906-96-376 Sequence 376 12 774 65 6 937 10 18-03-906-96-376 Sequence 376 12 774 65 6 937 10 18-03-906-96-376 Sequence 376 12 774 65 6 937 10 18-03-906-376 Sequence 377 774 65 6 937 10 18-03-906-96-376 Sequence 378 774 65 6 937 10 18-03-906-96-376 Sequence	9 1	774	ທີ່ທີ	თ თ	o o	S-09-905-291A-376 S-09-902-853-376	equence 376,
774 65.6 997 9 US-09-907-841-376 Sequence 376, 65.6 997 10 US-09-901-011-376 Sequence 377 (10 US-09-901-011-376 Sequence 377 (10 US-09-901-301-376 Sequence 377 (10 US-09-901-301-301-376 Sequence 377 (10 US-09-901-301-301-376 Sequence 377 (10 US-09-901-301-301-301-301-301-301-301-301-301-3	10 774 65.6 997 10 US-09-907-861-376 Sequence 376, 11 774 65.6 997 10 US-09-907-861-376 Sequence 376, 11 774 65.6 997 10 US-09-908 093-376 Sequence 376, 11 774 65.6 997 10 US-09-906 PR-376 Sequence 376, 11 774 65.6 997 10 US-09-906 PR-376 Sequence 376, 12 774 65.6 997 10 US-09-906 PR-376 Sequence 376, 12 774 65.6 997 10 US-09-906 PR-376 Sequence 376, 12 774 65.6 997 10 US-09-906 PR-376 Sequence 376, 12 774 65.6 997 10 US-09-906 PR-376 Sequence 376, 12 774 65.6 997 10 US-09-906 PR-376 Sequence 376, 12 774 65.6 997 10 US-09-906 PR-376 Sequence 376, 12 774 65.6 997 10 US-09-906 PR-376 Sequence 376, 12 774 65.6 997 10 US-09-906 PR-376 Sequence 376, 12 774 65.6 997 10 US-09-906 PR-376 Sequence 376, 12 774 65.6 997 10 US-09-906 PR-376 Sequence 377 174 65.6 997 10 US-09-906 PR-376 Sequence 378 PR-376 Sequence 379 PR-376 Sequence 379 PR-376 Sequence 370 PR-376 Sequenc	- σο	774	'n	ω.	0	S-09-907-824-37	equence 376,
777 65.6 997 10 US-09-090-640-376 Sequence 376 Sequence 377 Sequence 376 Sequence 377 Sequence 376 Sequence 3	111 774 65.6 997 10 US-09-09-08-08-376 Sequence 377 174 65.6 997 10 US-09-09-08-08-376 Sequence 378 174 65.6 997 10 US-09-09-08-3776 Sequence 378 174 65.6 997 10 US-09-09-3779 178 Sequence 378 Sequence 378 174 65.6 997 10 US-09-09-3779 178 Sequence 378 Sequence 378 174 65.6 997 10 US-09-09-3779 178 Sequence 378 Sequence 378 Sequence 378 174 65.6 997 10 US-09-09-3779 178 Sequence 378 Sequence 378 174 65.6 997 10 US-09-09-378 178 Sequence 378 174 65.6 997 10 US-09-30-378 178 Sequence 378 178 US-09-30-3	ט כ	774	ທີ່ ພ	თ ი	ο -	S-09-907-841-376	equence 376,
774 65.6 997 10 US-09-008-033-376 Sequence 377 55.6 997 10 US-09-06-742-376 Sequence 377 55.6 997 10 US-09-006-742-376 Sequence 377 57.4 65.6 997 10 US-09-007-613-376 Sequence 377 57.4 65.6 997 10 US-09-007-613-376 Sequence 377 57.4 65.6 997 10 US-09-007-613-376 Sequence 377 57.4 65.6 997 10 US-09-004-820-376 Sequence 377 57.4 65.6 997 10 US-09-004-820-376 Sequence 377 57.4 65.6 997 10 US-09-006-700-376 Sequence 377 57.4 65.6 997 10 US-09-006-700-376 Sequence 377 57.4 65.6 997 10 US-09-006-700-376 Sequence 377 57.4 65.6 997 10 US-09-007-94-376 Sequence 377 57.4 65.6 997 10 US-09-007-95-376 Sequence 377 57.4 65.6 997 10 US-09-007-95-376 Sequence 377 57.4 65.6 997 10 US-09-007-95-376 Sequence 377 57.5 65.6 997 10 US-09-007-95-376 Sequence 377 57.4 65.6 997 10 US-09-007-95-376 Sequence 377 57.5 65.6 997 10 US-09-007	12 774 65.6 997 10 US-09-090-091-376 13 774 65.6 997 10 US-09-090-091-376 14 774 65.6 997 10 US-09-090-091-376 15 774 65.6 997 10 US-09-090-091-376 18 774 65.6 997 10 US-09-090-101-376 20 774 65.6 997 10 US-09-090-101-376 21 774 65.6 997 10 US-09-090-201-376 22 774 65.6 997 10 US-09-090-201-376 23 774 65.6 997 10 US-09-090-201-376 24 774 65.6 997 10 US-09-090-201-376 25 774 65.6 997 10 US-09-090-201-376 26 97 10 US-09-090-201-376 27 774 65.6 997 10 US-09-090-201-376 28 774 65.6 997 10 US-09-090-376 29 774 65.6 997 10 US-09-901-376 20 774 65.6 997 10 US-09-901-376	11	774		nσ	20	-09-903-640-37	37.6
774 65.6 997 10 US-09-906-742-376 Sequence 376 65.6 997 10 US-09-906-742-376 Sequence 376 774 65.6 997 10 US-09-906-742-376 Sequence 376 774 65.6 997 10 US-09-907-613-376 Sequence 376 774 65.6 997 10 US-09-907-812-376 Sequence 376 97 10 US-09-907-74 85.6 997 10 US-09-907-74 376 Sequence 376 860 874 85.6 997 10 US-09-907-74 376 Sequence 376 860 874 85.6 997 10 US-09-907-74 376 Sequence 377 85.6 997 10 US-09-907-74 376 Sequence 377 85.6 997 10 US-09-907-925-376	13 774 65.6 997 10 US-09-906-813-76 Sequence 376	12	774	'n.	σ,	10	-09-908-093-37	376
774 65.6 997 10 US-09-907-613-376 Sequence 376 Sequence 3	15	13	774	ທ່າ	თ ი	9 5	-09-906-742-37	376
774 65.6 997 10 US-09-907-942-376 Sequence 376 65.6 997 10 US-09-908-829-376 Sequence 376 55.6 997 10 US-09-909-2014-376 Sequence 376 55.6 997 10 US-09-909-2014-376 Sequence 376 55.6 997 10 US-09-909-2014-365 Sequence 376 Sequence 376 55.6 997 10 US-09-906-700-376 Sequence 377 55.6 997 10 US-09-901-301-376 Sequence 377 55.6 997 10 US-09-901-376 Sequence 3	16	7 7	774		n o	200	-09-908-838-37	376
774 65.6 997 10 US-09-904-859-376 Sequence 376 Sequence 377 Sequence 376 Sequence 3	18 774 65.6 997 10 US-09-90-204-76 Sequence 376 Sequence 376 65.6 997 10 US-09-90-204-76 Sequence 376 55.6 997 10 US-09-90-703-76 Sequence 376 55.6 997 10 US-09-903-76-376 Sequence 376 55.6 997 10 US-09-903-76-376 Sequence 377 774 65.6 997 10 US-09-903-76-376 Sequence 377 774 65.6 997 10 US-09-903-76-376 Sequence 377 774 65.6 997 10 US-09-903-26-376 Sequence 377 774 65.6 997 10 US-09-903-203-76 Sequence 377 774 65.6 997 10 US-09-903-203-77 77 Sequence 377 774 65.6 997 10 US-09-903-203-77 Sequence 377 65.6 997 10 US-09-903-203-77 Sequence 377 774 65.6 997 10 US-09-903-203-77 Sequence 377 774 65.6 997 10 US-09-903-203-77 Sequence 377 Sequence 370 Sequence	16	774	٠. ن	6	10	-09-907-942-37	376
774 65.6 997 10 US-09-904-786-376 Sequence 376 Sequence 377 September 376 Sequence	19 774 65.6 997 10 US-09-994-820-376 Sequence 372 774 65.6 997 10 US-09-994-820-376 Sequence 372 774 65.6 997 10 US-09-994-86-376 Sequence 372 774 65.6 997 10 US-09-994-86-376 Sequence 372 774 65.6 997 10 US-09-994-87-376 Sequence 372 774 65.6 997 10 US-09-994-376 Sequence 372 774 65.6 997 10 US-09-994-497-376 Sequence 373 774 65.6 997 10 US-09-994-462-376 Sequence 373 774 65.6 997 10 US-09-994-462-376 Sequence 373 774 65.6 997 10 US-09-994-62-376 Sequence 374 65.6 997 10 US-09-994-62-376 Sequence 373 774 65.6 997 10 US-09-994-62-376 Sequence 374 65.6 997 10 US-09-994-63-376 Sequence 374 65.6 997 10 US-09-994-53-376 Sequence 374 65.6 997 10 US-09-994-54-376 Sequence 374 65.6 997 10 US-09-994-53-376 Sequence 374 65.6 997 10 US-09-994-54-376 Sequence 374 65.6 997 10 US-09-99	17	774	u	თი	0 6	-09-904-859-37	376
174 65.6 997 10 US-09-094-786-376 Sequence 376 Sequence 377 Sequence 3	20 774 65.6 997 10 US-09-906-466-376 Sequence 372 774 65.6 997 10 US-09-906-466-376 Sequence 372 774 65.6 997 10 US-09-906-700-376 Sequence 372 774 65.6 997 10 US-09-906-376 Sequence 372 774 65.6 997 10 US-09-902-903-376 Sequence 372 774 65.6 997 10 US-09-902-903-376 Sequence 372 774 65.6 997 10 US-09-904-159-376 Sequence 372 774 65.6 997 10 US-09-907-94-376 Sequence 373 774 65.6 997 10 US-09-907-94-376 Sequence 374 65.6 997 10 US-09-907-94-376 Sequence 374 65.6 997 10 US-09-907-94-376 Sequence 374 65.6 997 10 US-09-907-63-376 Sequence 374 65.6 997 10 US-09-907-53-376 Sequence 374 65.6 997 10 US		774		nσ	200	-09-904-820-37	37.6
1 774 65.6 997 10 US-09-906-646-376 Sequence 376 Sequence 376 65.6 997 10 US-09-906-646-376 Sequence 376 Sequence 376 65.6 997 10 US-09-906-708-376 Sequence 376 Sequence 376 65.6 997 10 US-09-903-796-376 Sequence 376 774 65.6 997 10 US-09-903-749A-376 Sequence 376 774 65.6 997 10 US-09-904-956-376 Sequence 376 774 65.6 997 10 US-09-904-956-376 Sequence 376 774 65.6 997 10 US-09-904-956-376 Sequence 376 774 65.6 997 10 US-09-904-376 Sequence 377 774 65.6 997 10 US-09-904-462-376 Sequence 376 774 65.6 997 10 US-09-904-462-376 Sequence 376 774 65.6 997 10 US-09-909-906-376 Sequence 376 774 65.6 997 10 US-09-909-906-376 Sequence 376 774 65.6 997 10 US-09-909-64-376 Sequence 376 774 65.6 997 10 US-09-905-348-376 Sequence 376 774 6	21 774 65.6 997 10 US-09-906-700-376 Sequence 376 22 774 65.6 997 10 US-09-906-700-376 Sequence 376 23 774 65.6 997 10 US-09-901-76-376 Sequence 376 24 774 65.6 997 10 US-09-901-76-376 Sequence 376 25 774 65.6 997 10 US-09-901-76-376 Sequence 376 26 774 65.6 997 10 US-09-901-776 Sequence 376 27 774 65.6 997 10 US-09-901-76-376 Sequence 376 28 774 65.6 997 10 US-09-901-76-376 Sequence 376 29 774 65.6 997 10 US-09-901-76-376 Sequence 376 31 774 65.6 997 10 US-09-901-76-376 Sequence 376 32 774 65.6 997 10 US-09-901-76-376 Sequence 376 33 774 65.6 997 10 US-09-901-901-60-376 Sequence 376 34 774 65.6 997 10 US-09-901-901-60-376 Sequence 376 35 774 65.6 997 10 US-09-901-901-60-376 Sequence 376 36 774 65.6 997 10 US-09-901-901-60-376 Sequence 376 37 774 65.6 997 10 US-09-901-901-60-376 Sequence 376 38 774 65.6 997 10 US-09-901-901-60-376 Sequence 376 39 774 65.6 997 10 US-09-901-901-60-376 Sequence 376 31 774 65.6 997 10 US-09-901-901-60-376 Sequence 376 32 774 65.6 997 10 US-09-901-901-60-376 Sequence 376 33 774 65.6 997 10 US-09-901-901-901-901-901-901-901-901-901-	20	774	'n	σ	10	-09-904-786-37	376
774 65.6 997 10 US-09-903-776 Sequence 376 65.6 997 10 US-09-903-776 Sequence 376 55.6 997 10 US-09-903-776 Sequence 376 55.6 997 10 US-09-903-748-376 Sequence 376 774 65.6 997 10 US-09-904-15-376 Sequence 377 774 65.6 997 10 US-09-904-15-376 Sequence 377 774 65.6 997 10 US-09-904-35-376 Sequence 377 774 65.6 997 10 US-09-902-75-376 Sequence 376 Sequence 377 774 65.6 997 10 US-09-902-75-376 Sequence 377 774 65.6 997 10 US-09-903-943-376 Sequence 377 774 65.6 997 10 US-09-903-520-376 Sequence 377 774 65.6 997 10 US-09-903-520-376 Sequence 377 774 65.6 997 10 US-09-903-520-376 Sequence 377 774 65.6 997 10 US-09-904-485-376 Sequence 377 774 65.6 997 10 US-09-905-348-376 Sequenc	22 774 65.6 997 10 US-09-903-76 Sequence 372 774 65.6 997 10 US-09-903-76 Sequence 372 774 65.6 997 10 US-09-903-76 Sequence 372 774 65.6 997 10 US-09-903-776 Sequence 372 774 65.6 997 10 US-09-903-776 Sequence 372 774 65.6 997 10 US-09-903-7776 Sequence 372 774 65.6 997 10 US-09-903-7776 Sequence 372 774 65.6 997 10 US-09-903-7776 Sequence 373 774 65.6 997 10 US-09-903-523-776 Sequence 373 774 65.6 997 10 US-09-903-523-776 Sequence 374 65.6 997 10 US-09-903-903-776 Sequence 374 65.6 997 10 US-09-903-903-776 Sequence 377 65.6 997 10 US-09-903-903-776 Sequence 377 65.6 997 10 US-09-903-903-776 Sequence 377 65.6 997 10 US-09-903-903-776 Sequence 374 65.6 997 10 US-09-903-903-776 Sequence 377 65.6 997 10 US-09-903-776 Sequence 377 65.6 997 10 US-09-903-779 Sequence 377 65.6	21	774	٠ س	σο	2 .	-09-906-646-37	376
774 65.6 997 10 US-09-903-376 Sequence 377 65.6 997 10 US-09-903-376 Sequence 377 65.6 997 10 US-09-904-119-376 Sequence 377 65.6 997 10 US-09-904-119-376 Sequence 377 774 65.6 997 10 US-09-904-3176 Sequence 377 774 65.6 997 10 US-09-904-375 Sequence 377 774 65.6 997 10 US-09-907-794-376 Sequence 377 774 65.6 997 10 US-09-907-794-376 Sequence 377 774 65.6 997 10 US-09-907-952-376 Sequence 377 774 65.6 997 10 US-09-907-952-376 Sequence 377 774 65.6 997 10 US-09-905-56-376 Sequence 377 774 65.6 997 10 US-09-905-56-376 Sequence 377 774 65.6 997 10 US-09-905-56-376 Sequence 377 774 65.6 997 10 US-09-905-34-376 Sequence 377 774 65.6 997 10 US-09-905-36-376 Sequence 377 774 65.6 997 10 US-09-905-36-376 Sequence 377 774 65.6 997 10 US-09-905-36-376 Sequence 377 774 65.6 997 10 US-09-905-348-376 Sequence 377 774 65.6 997	24 774 65.6 997 10 US-09-902-903-376 Sequence 376 25 774 65.6 997 10 US-09-903-776 Sequence 376 26 774 65.6 997 10 US-09-903-776 Sequence 376 28 774 65.6 997 10 US-09-903-776 Sequence 377 65.6 997 10 US-09-903-776 Sequence 377 10 US-09-903-7776 Sequence 377 10 US-09-	23 23	774		v o	20	-03-308-700-37	37,6
5 774 65.6 997 10 US-09-903-745A-376 Sequence 376 65.6 997 10 US-09-904-119-376 Sequence 376 774 65.6 997 10 US-09-904-119-376 Sequence 376 977 10 US-09-904-119-376 Sequence 376 977 10 US-09-907-794-376 Sequence 377 974 65.6 997 10 US-09-907-952-376 Sequence 377 974 65.6 997 10 US-09-907-952-376 Sequence 377 974 65.6 997 10 US-09-905-056-376 Sequence 377 974 65.6 997 10 US-09-905-348-376 Sequence 377 974 974 975 975 975 975 975 975 975 975 975 975	25 774 65.6 997 10 US-09-901-714576 Sequence 377 774 65.6 997 10 US-09-901-719-776 Sequence 377 774 65.6 997 10 US-09-901-119-376 Sequence 377 774 65.6 997 10 US-09-901-956-376 Sequence 377 774 65.6 997 10 US-09-901-62-376 Sequence 377 774 65.6 997 10 US-09-901-63-376 Sequence 377 774 65.6 997 10 US-09-901-901-901-901-901-901-901-901-901-	24	774	Š	G	10	-09-902-903-376	376
7.74 65.6 997 10 US-09-904-119-76 Sequence 376 65.6 997 10 US-09-904-956-376 Sequence 377 774 65.6 997 10 US-09-904-956-376 Sequence 377 774 65.6 997 10 US-09-904-956-376 Sequence 377 774 65.6 997 10 US-09-907-794-376 Sequence 377 774 65.6 997 10 US-09-907-952-376 Sequence 377 774 65.6 997 10 US-09-907-952-376 Sequence 377 774 65.6 997 10 US-09-905-520-376 Sequence 377 774 65.6 997 10 US-09-905-520-376 Sequence 377 774 65.6 997 10 US-09-904-553-376 Sequence 377 774 65.6 997 10 US-09-904-523-376 Sequence 377 774 65.6 997 10 US-09-904-523-376 Sequence 377 774 65.6 997 10 US-09-904-523-376 Sequence 377 774 65.6 997 10 US-09-905-348-376 Sequence 377 774 65.6 997 10 US-09-905-378-376 Sequence 377 774 65.6 997 10 US-09-905-378-376 Sequence 377 774 65.6 997 10 US-09-905-348-376 Sequence 377 774 65.6 997 10 US-09-905-378-376 Sequence 377 774 65.6 997 10 US-09-905-378	25 774 65.6 997 10 US-09-904-956-376 Sequence 377 65.6 997 10 US-09-904-956-376 Sequence 378 774 65.6 997 10 US-09-904-957-376 Sequence 378 774 65.6 997 10 US-09-904-757-376 Sequence 378 774 65.6 997 10 US-09-904-759-376 Sequence 378 774 65.6 997 10 US-09-904-	25	774	'n.	0 0	2:	-09-903-749A-37	376
9 774 65.6 997 10 US-09-902-736-376 Sequence 377 65.6 997 10 US-09-902-736-376 Sequence 378 65.6 997 10 US-09-903-941-376 Sequence 378 65.6 997 10 US-09-903-941-376 Sequence 378 774 65.6 997 10 US-09-907-925-376 Sequence 378 774 65.6 997 10 US-09-902-692-376 Sequence 378 774 65.6 997 10 US-09-902-692-376 Sequence 378 774 65.6 997 10 US-09-902-692-376 Sequence 378 774 65.6 997 10 US-09-909-64-376 Sequence 378 774 65.6 997 10 US-09-904-553-376 Sequence 378 774 65.6 997 10 US-09-904-553-376 Sequence 378 774 65.6 997 10 US-09-904-853-376 Sequence 378 774 65.6 997 10 US-09-904-853-376 Sequence 378 774 65.6 997 10 US-09-905-348-376 Sequence 378 774 65.6 997 10 US-09-905-378 Sequence 378 774 65.6 997 10 US-09-902-759-376 Sequence 378 774 65.6	28 774 65.6 997 10 US-09-902-736-376 Sequence 370 374 65.6 997 10 US-09-907-975-376 Sequence 370 374 65.6 997 10 US-09-903-943-376 Sequence 370 374 65.6 997 10 US-09-903-943-376 Sequence 370 374 65.6 997 10 US-09-907-952-376 Sequence 370 374 65.6 997 10 US-09-907-952-376 Sequence 370 374 65.6 997 10 US-09-907-952-376 Sequence 370 374 65.6 997 10 US-09-905-064-376 Sequence 370 374 65.6 997 10 US-09-905-376 Sequence 370 374 65.6 997 10 US-09-905-075-376 Sequence 370 374 65.6 997 10 US-09-905-376 Sequence 370 375 376 376 376 376 376 376 376 376 376 376	27	774	ດ່ທີ	πσ	0 7	-09-904-119-3/	2 / 6
9 774 65.6 997 10 US-09-907-794-376 Sequence 376 20 174 65.6 997 10 US-09-907-794-376 Sequence 376 Sequence 376 Sequence 376 21 774 65.6 997 10 US-09-904-462-376 Sequence 376	29 774 65.6 997 10 US-09-907-794-376 Sequence 376 310 774 65.6 997 10 US-09-903-943-376 Sequence 376 31 774 65.6 997 10 US-09-904-462-376 Sequence 377	28	774	'n	0	2	-09-902-736-37	376
774 65.6 997 10 US-09-904-462-376 Sequence 376 65.6 997 10 US-09-904-462-376 Sequence 377 65.6 997 10 US-09-904-462-376 Sequence 377 65.6 997 10 US-09-904-652-376 Sequence 377 65.6 997 10 US-09-905-632-376 Sequence 377 774 65.6 997 10 US-09-905-63-376 Sequence 376 Sequence 376 Sequence 376 Sequence 376 Sequence 376 774 65.6 997 10 US-09-904-553-376 Sequence 376 Seque	31 774 65.6 997 10 US-09-09-13-176 Sequence 376 32 774 65.6 997 10 US-09-09-13-176 Sequence 376 32 774 65.6 997 10 US-09-90-69-23-76 Sequence 376 32 774 65.6 997 10 US-09-90-69-23-76 Sequence 376 35 774 65.6 997 10 US-09-90-66-376 Sequence 376 35 774 65.6 997 10 US-09-90-66-376 Sequence 376 377 65.6 997 10 US-09-90-66-376 Sequence 376 377 774 65.6 997 10 US-09-90-90-64-376 Sequence 376 377 774 65.6 997 10 US-09-90-90-376 Sequence 376 377 774 65.6 997 10 US-09-90-376 Sequence 376 41 774 65.6 997 10 US-09-90-376 Sequence 376 42 774 65.6 997 10 US-09-90-376 Sequence 376 42 774 65.6 997 10 US-09-90-376 Sequence 376 44 774 65.6 997 10 US-09-90-376 Sequence 376 44 774 65.6 997 10 US-09-90-376 Sequence 376 Sequence 37	53	774	ښ.	0,0	10	-09-907-794-37	37,6
774 65.6 997 10 US-09-907-925-376 Sequence 377 65.6 997 10 US-09-907-925-376 Sequence 377 65.6 997 10 US-09-903-520-376 Sequence 377 65.6 997 10 US-09-903-520-376 Sequence 377 65.6 997 10 US-09-909-064-376 Sequence 377 774 65.6 997 10 US-09-909-064-376 Sequence 377 774 65.6 997 10 US-09-909-064-376 Sequence 377 774 65.6 997 10 US-09-904-553-376 Sequence 377 774 65.6 997 10 US-09-904-85-376 Sequence 377 774 65.6 997 10 US-09-905-348-376 Sequence 377 774 65.6 997 10 US-09-905-348-376 Sequence 377 774 65.6 997 10 US-09-905-378 Sequence 377 774 65.6 997 10 US-09-905-378 Sequence 377 774 65.6 997 10 US-09-905-378 Sequence 377 774 65.6 997 10 US-09-907-575-376 Sequence 377 774 65.6 997 10 US-09-902-759-376 Sequence 377 774 65.	32 774 65.6 997 10 US-09-907-925-376 Sequence 373 774 65.6 997 10 US-09-902-692-376 Sequence 374 65.6 997 10 US-09-902-692-376 Sequence 375 374 65.6 997 10 US-09-902-692-376 Sequence 375 3774 65.6 997 10 US-09-905-056-376 Sequence 375 3774 65.6 997 10 US-09-905-066-376 Sequence 377 374 65.6 997 10 US-09-904-553-376 Sequence 377 4 65.6 997 10 US-09-904-553-376 Sequence 376 40 774 65.6 997 10 US-09-904-5376 Sequence 376 41 774 65.6 997 10 US-09-904-5376 Sequence 376 41 774 65.6 997 10 US-09-905-348-376 Sequence 376 42 774 65.6 997 10 US-09-907-575-376 Sequence 376 44 774 65.6 997 10 US-09-907-575-376 Sequence 376 44 774 65.6 997 10 US-09-907-575-376 Sequence 376 44 774 65.6 997 10 US-09-907-575-376 Sequence 376 45 774 65.6 997 10 US-09-907-575-376 Sequence 376 47 77 77 77 77 77 77 77 77 77 77 77 77	0 E	774	ກໍດ	ס ת	2 0	-09-903-943-37	2 6
3 774 65.6 997 10 US-09-902-692-376 Sequence 376 65.6 997 10 US-09-903-520-376 Sequence 376 574 65.6 997 10 US-09-903-520-376 Sequence 376 774 65.6 997 10 US-09-905-064-376 Sequence 376 774 65.6 997 10 US-09-905-311-376 Sequence 377 65.6 997 10 US-09-904-455-376 Sequence 377 774 65.6 997 10 US-09-904-455-376 Sequence 377 774 65.6 997 10 US-09-905-318-376 Sequence 376 1774 65.6 997 10 US-09-905-081-376 Sequence 376 Seq	33 774 65.6 997 10 US-09-902-692-376 Sequence 376 35 774 65.6 997 10 US-09-903-520-376 Sequence 376 36 774 65.6 997 10 US-09-903-520-376 Sequence 376 37 774 65.6 997 10 US-09-905-056-376 Sequence 376 37 774 65.6 997 10 US-09-904-533-376 Sequence 376 39 774 65.6 997 10 US-09-904-533-376 Sequence 376 40 774 65.6 997 10 US-09-904-485-376 Sequence 376 41 774 65.6 997 10 US-09-905-348-376 Sequence 376 41 774 65.6 997 10 US-09-905-348-376 Sequence 376 42 774 65.6 997 10 US-09-905-348-376 Sequence 376 42 774 65.6 997 10 US-09-905-348-376 Sequence 376 44 774 65.6 997 10 US-09-905-75-376 Sequence 376 45 774 65.6 997 10 US-09-905-05-34-376 Sequence 376 45 774 65.6 997 10 US-09-905-05-34-34 Sequence 376 45 774	3 6	774) O	01	-09-907-925-37	37,6
4 774 65.6 997 10 US-09-905-526-376 Sequence 376 5.6 997 10 US-09-905-056-376 Sequence 376 774 65.6 997 10 US-09-905-056-376 Sequence 376 774 65.6 997 10 US-09-909-064-376 Sequence 376 774 65.6 997 10 US-09-905-3176 Sequence 376 997 10 US-09-904-455-376 Sequence 376 774 65.6 997 10 US-09-905-318-376 Sequence 376 174 65.6 997 10 US-09-905-088-376 Sequence 376 Sequence 376 997 10 US-09-905-088-376 Sequence 376 174 65.6 997 10 US-09-905-088-376 Sequence 376 S	34 774 65.6 997 10 US-09-903-520-376 Sequence 378 35 774 65.6 997 10 US-09-903-520-376 Sequence 378 36 774 65.6 997 10 US-09-906-376 Sequence 378 37 774 65.6 997 10 US-09-906-376 Sequence 378 38 774 65.6 997 10 US-09-904-533-376 Sequence 378 38 774 65.6 997 10 US-09-905-381-376 Sequence 378 40 774 65.6 997 10 US-09-905-381-376 Sequence 378 41 774 65.6 997 10 US-09-905-381-376 Sequence 378 42 774 65.6 997 10 US-09-905-381-376 Sequence 378 43 774 65.6 997 10 US-09-905-397 Sequence 378 44 774 65.6 997 10 US-09-902-759-376 Sequence 378 45 774 65.6 997 10 US-09-902-759-376 Sequence 378 5-10-812-620-1 Sequence 378 Sequence 378 5-10-812-620-1 Se	33	774	ď.	σ	10	-09-902-692-37	376
774 65.6 997 10 US-09-909-0564-376 Sequence 377 774 65.6 997 10 US-09-909-0561-376 Sequence 377 8 774 65.6 997 10 US-09-905-3176 Sequence 377 9 774 65.6 997 10 US-09-904-485-376 Sequence 377 1 774 65.6 997 10 US-09-905-348-376 Sequence 377 1 774 65.6 997 10 US-09-905-088-376 Sequence 377 2 774 65.6 997 10 US-09-905-088-376 Sequence 377 4 774 65.6 997 10 US-09-905-075-376 Sequence 376 5 774 65.6 997 10 US-09-902-759-376 Sequence 376 5 774 65.6 997 10 US-09-902-759-376 Sequence 376 5 774 65.6 997 10 US-09-902-759-376 Sequence 376	35 774 65.6 997 10 05-09-064-376 Sequence 377 38 774 65.6 997 10 05-09-064-376 Sequence 377 39 774 65.6 997 10 05-09-064-376 Sequence 377 40 774 65.6 997 10 05-09-064-376 Sequence 377 41 774 65.6 997 10 05-09-06-381-376 Sequence 376 42 774 65.6 997 10 05-09-05-081-376 Sequence 376 43 774 65.6 997 10 05-09-05-081-376 Sequence 376 44 774 65.6 997 10 05-09-05-081-376 Sequence 376 45 774 65.6 997 10 05-09-05-081-376 Sequence 376 46 774 65.6 997 10 05-09-05-081-376 Sequence 376 47 774 65.6 997 10 05-09-05-081-376 Sequence 376 48 774 65.6 997 10 05-09-05-081-376 Sequence 376 49 774 65.6 997 10 05-09-05-05-376 Sequence 376 49 774 65.6 997 10 05-09-05-05-376 Sequence 376 49 774 65.6 997 10 05-09-05-05-376 Sequence 376 40 774 65.6 997 10 05-09-05-05-376 Sequence 376 40 774 65.6 997 10 05-09-05-05-376 Sequence 376 41 774 65.6 997 10 05-09-05-05-376 Sequence 376 42 774 65.6 997 10 05-09-05-05-05-05-05-05-05-05-05-05-05-05-05-	9. G	774	ທ່າ	თი	0 0	-09-903-520-37	376
774 65.6 997 10 US-09-904-553-376 Sequence 376 Sequence 3	37 774 65.6 997 10 US-09-904-553-376 Sequence 377 89 774 65.6 997 10 US-09-905-381-376 Sequence 376 40 774 65.6 997 10 US-09-905-381-376 Sequence 376 40 774 65.6 997 10 US-09-905-381-376 Sequence 376 41 774 65.6 997 10 US-09-905-081-376 Sequence 376 42 774 65.6 997 10 US-09-905-081-376 Sequence 376 43 774 65.6 997 10 US-09-905-081-376 Sequence 376 44 774 65.6 997 10 US-09-905-075-376 Sequence 376 45 774 65.6 997 10 US-09-902-634-376 Sequence 376 45 774 65.6 997 10 US-09-902-634-376 Sequence 376 Sequence 376 45 774 65.6 997 10 US-09-902-634-376 Sequence 376 Sequence 1, Application US/10812620 Sequence 376 Se	90	774	. u	no	0	-09-909-096-37	37,6
8 774 65.6 997 10 US-09-905-381-376 Sequence 376 9774 65.6 997 10 US-09-904-485-376 Sequence 376 174 65.6 997 10 US-09-905-348-376 Sequence 376 2774 65.6 997 10 US-09-905-388-376 Sequence 376 2 774 65.6 997 10 US-09-907-575-376 Sequence 376 2 774 65.6 997 10 US-09-905-376 Sequence 376 2 774 65.6 997 10 US-09-902-759-376 Sequence 376 2 774 65.6 997 10 US-09-902-634-376 Sequence 376 2 774 65.6 997 10 US-09-902-759-376 Sequence	38 774 65.6 997 10 US-09-905-381-376 Sequence 376 40 774 65.6 997 10 US-09-905-381-376 Sequence 376 41 774 65.6 997 10 US-09-904-485-376 Sequence 376 42 774 65.6 997 10 US-09-905-348-376 Sequence 376 43 774 65.6 997 10 US-09-07-57-376 Sequence 376 44 774 65.6 997 10 US-09-902-759-376 Sequence 376 45 774 65.6 997 10 US-09-902-759-376 Sequence 376 45 774 65.6 997 10 US-09-902-759-376 Sequence 376 45 774 65.6 997 10 US-09-902-634-376 Sequence 376 45 774 65.6 997 10 US-09-002-634-376 Sequence 376 45 774 65.6 997 10 US-09-902-634-376 Sequence 376 46 774 65.6 997 10 US-09-902-634-376 Sequence 376 47 774 65.6 997 10 US-09-902-634-376 Sequence 376 47 774 65.6 997 10 US-09-902-634-376 Sequence 376 48 774 65.6 997 10 US-09-902-634-376 Sequence 376 49 774 65.6 997 10 US-09-902-634-376 Sequence 376 49 774 65.6 997 10 US-09-902-902-902-902-902-902-902-902-902-	37	774	'n	o.	10	-09-904-553-37	376
7/4 65.6 997 10 US-09-906-348-376 Sequence 376 1 774 65.6 997 10 US-09-905-348-376 Sequence 376 2 774 65.6 997 10 US-09-907-575-376 Sequence 376 3 774 65.6 997 10 US-09-907-575-376 Sequence 376 4 774 65.6 997 10 US-09-907-375-376 Sequence 376 5 774 65.6 997 10 US-09-902-759-376 Sequence 376 5 ALIGNMENTS	40 774 65.6 997 10 US-09-376 Sequence 376 41 774 65.6 997 10 US-09-905-348-376 42 774 65.6 997 10 US-09-905-348-376 43 774 65.6 997 10 US-09-905-376 Sequence 376 43 774 65.6 997 10 US-09-905-088-376 44 774 65.6 997 10 US-09-902-759-376 45 774 65.6 997 10 US-09-902-634-376 46 774 65.6 997 10 US-09-902-634-376 45 774 65.6 997 10 US-09-902-634-376 45 774 65.6 997 10 US-09-902-634-376 46 774 65.6 997 10 US-09-902-634-378 46 774 65.6 997 10 US-09-902-93724 47 774 65.6 997 10 US-09-902-93724 47 774 65.6 997 10 US-09-902-93724 48 774 65.6 997 10 US-09-902-93724 48 774 65.6 997 10 US-09-902-93724 49 774 65.6 997 10 US-09-902-93724 49 774 65.6 997 10 US-09-902-93724 49 774 65.6 997 10 US-09-902-93724 40 774 65.6 997 10 US-09-902-902-902-93724 40 774 65.6 997 10 US-09-902-902-902-902-902-902-902-902-902-	38	774	٠. ن	0 0	25	-09-905-381-37	37,
1 774 65.6 997 10 US-09-905-088-376 Sequence 376 2 774 65.6 997 10 US-09-907-575-376 Sequence 376 3774 65.6 997 10 US-09-905-075-376 Sequence 376 4 774 65.6 997 10 US-09-902-759-376 Sequence 376 Sequence 376 Sequence 376 A 774 65.6 997 10 US-09-902-634-376 Sequence 376 A 774 65.6 997 10 US-09-902-634-376 Sequence 376 Sequence 376 Sequence 376 Sequence 376 Sequence 376 A 10 US-09-902-634-376 Sequence 376 S	42 774 65.6 997 10 05-095-088-376 Sequence 376 42 774 65.6 997 10 05-095-088-376 Sequence 376 43 774 65.6 997 10 05-09-055-0376 Sequence 376 44 774 65.6 997 10 05-09-05-0376 Sequence 376 45 774 65.6 997 10 05-09-05-0376 Sequence 376 45 774 65.6 997 10 05-09-05-0376 Sequence 376 5-10-812-620-1 5-10-812-620	W 4	774		nο	2 6	-09-904-485-37	2,7
2 774 65.6 997 10 US-09-907-575-376 Sequence 376 3 774 65.6 997 10 US-09-905-075-376 Sequence 376 5 6 997 10 US-09-902-759-376 Sequence 376 5 774 65.6 997 10 US-09-902-634-376 Sequence 376	42 774 65.6 997 10 US-09-907-575-376 Sequence 376 44 774 65.6 997 10 US-09-905-075-376 Sequence 376 45 774 65.6 997 10 US-09-905-075-376 Sequence 376 45 774 65.6 997 10 US-09-902-634-376 Sequence 376 45 774 65.6 997 10 US-09-902-634-376 Sequence 376 ESULT 1 ALIGNMENTS ALIGNMENTS Sequence 1, Application. US/10812620 Publication No. US20050019860A1 APPLICATION: APPLICATION: APPLICATION NUMBER: US/10/812,620 CURRENT FILING DATE: 2004-03-29 PRIOR APPLICATION NUMBER: US/10/110,945 PRIOR FILING DATE: 2002-04-14 PRIOR FILING DATE: 1999-10-15 NUMBER OF SEQ ID NOS: 2 SEQ ID NO 1	4.4	774	. v	00	20	-09-905-088-37	37.
3 774 65.6 997 10 US-09-905-075-376 Sequence 376 4 774 65.6 997 10 US-09-902-759-376 Sequence 376 5.6 997 10 US-09-902-634-376 Sequence 376 ALIGNWENTS	43 774 65.6 997 10 US-09-905-075-376 Sequence 376 44 774 65.6 997 10 US-09-902-759-376 Sequence 376 45 774 65.6 997 10 US-09-902-759-376 Sequence 376 ESULT 1 Sequence 1, Application. US/10812620 Sequence 1, Application. US/10812620 September 1, Application. US/10812620 Sequence 1, Application. US/10812620 Sequence 1, Application. US/10812620 Sequence 2, Application. US/10812620 SEQUENCE 3. US/10/812,620 CURRENT Japan Science and Technology Corporation TITLE REFERENCE: JA904071 CURRENT FILING DATE: 2004-03-29 PRIOR FILING DATE: 2002-04-14 PRIOR FILING DATE: 1999-10-15 NUMBER OF SEQ ID NOS: 2 SEQ ID NO 1	42	774	'n.	σ	10	-09-907-575-37	376
ALIGNMENTS	ALIGNMENTS ALIGNMENTS ALIGNMENTS Sequence 1, Application. US/10812620 APPLICANT: Japan Science and Technology Corporation TITLE OF INVENTION: APPLICANT: Japan Science and Technology Corporation TITLE OF INVENTION: A novel C-type lectin and its genes FILE REFERENCE: JA994071 CURRENT FILING DATE: 2004-03-29 PRIOR FILING DATE: 2002-04-14 PRIOR FILING DATE: 1999-10-15 NUMBER OF SEQ ID NOS: 2 SEQ ID NO 1	4. 4 6. 4	774		თ ი	9 6	-09-905-075-37	376
	ALIGNMENTS SSULT 1 S-10-812-620-1 S-10-812-620-1 Sequence 1, Application US/10812620 Publication No. US20050019860A1 GENERAL INFORMATION: APPLICANT: Japan Science and Technology Corporation TITLE OF INVENTION: A novel C-type lectin and its gene FILE REFERENCE: Jay04071 CURRENT FILING DATE: 2004-03-29 PRIOR APPLICATION NUMBER: US/10/110,945 PRIOR APPLICATION NUMBER: US/10/110,945 PRIOR FILING DATE: 2002-04-14 PRIOR FILING DATE: 1999-10-15 NUMBER OF SEQ ID NOS: 2 SEQ ID NO 1	45	774		00 (101	-09-902-634-37	376
	SSULT 1 S-10-812-620-1 S-10-812-620-1 S-10-812-620-1 Sequence 1, Application US/10812620 Publication No. US20050019860A1 GENERAL INFORMATION: APPLICANT: Japan Science and Technology Corporation TITLE OF INVENTION: A novel C-type lectin and its gene FILE REFERENCE: JA904071 CURRENT PILING DATE: 2004-03-29 PRIOR APPLICATION NUMBER: US/10/110,945 PRIOR APPLICATION NUMBER: JP 11-293724 PRIOR FILING DATE: 1999-10-15 NUMBER OF SEQ ID NOS: 2 SEQ ID NO 1							
	GENERAL INFORMATION: APPLICANT: Japan Science and Technology Corporation TITLE OF INVENTION: A novel C-type lectin and its gene FILE REFERENCE: Japan Science and Technology Corporation CURRENT APPLICATION NUMBER: US/10/812,620 CURRENT FILING DATE: 2004-03-29 PRIOR APPLICATION NUMBER: US/10/110,945 PRIOR PILING DATE: 2002-04-14 PRIOR FILING DATE: 1999-10-15 NUMBER OF SEQ ID NOS: 2 SEQ ID NO 1	US-10-81	2-620-1 ice 1, A	pplicat	ion US/	108	262	
S-10-812-620-1 Sequence 1, Application US/1081262 Bublication No. 162005001086001	AFFLICANT: Japan Science and recomposition of TITLE OF INVENTION: A novel C-type lectin and its gene FILE REFERENCE: JA904071 CURRENT APPLICATION NUMBER: US/10/812,620 CURRENT FILING DATE: 2004-03-29 PRIOR APPLICATION NUMBER: US/10/110,945 PRIOR FILING DATE: 2002-04-14 PRIOR FILING DATE: 1999-10-15 NUMBER OF SEQ ID NOS: 2 SEQ ID NO 1	GENERA	L INFOR	MATION:	50000	5 7		
S-10-812-620-1 Sequence 1, Application US/10812620 Publication No. US20050019860A1 GENERAL INFORMATION:	FILE REFERENCE: JA904071 CURRENT APPLICATION NUMBER: US/10/812,62 CURRENT FILING DATE: 2004-03-29 PRIOR APPLICATION NUMBER: US/10/110,945 PRIOR PLING DATE: 2002-04-14 PRIOR APPLICATION NUMBER: JP 11-293724 PRIOR FILING DATE: 1999-10-15 NUMBER OF SEQ ID NOS: 2 SEQ ID NO 1	; APPLI	OF INV	apan so ENTION:	A nove	L G	ecnnology corporation type lectin and its gene	
S-10-812-620-1 Sequence 1, Application US/10812620 Sequencation No. US20050019860A1 GENERAL INFORMATION: APPLICANT: Japan Science and Technology Corporation TITLE OF INVENTION: A novel C-type lectin and its gene	CURRENT FILING DATE: 2004-03-29 PRIOR APPLICATION NUMBER: US/10/110,945 PRIOR FILING DATE: 2002-04-14 PRIOR APPLICATION NUMBER: JP 11-293724 PRIOR FILING DATE: 1999-10-15 NUMBER OF SEQ ID NOS: 2 SEQ ID NO 1	; FILE ; CURRE	REFEREN INT APPL	CE: JA9	104071 I NUMBEF		10/812,62	
S-10-812-620-1 Sequence 1, Application US/10812620 Sequence 1, Application US/10812620 Publication No. US20050019860A1 GENERAL INFORMATION: APPLICANT: Japan Science and Technology Corporation TITLE OF INVENTION: A novel C-type lectin and its gene FILE REFERENCE: JA9940A1 CURRENT APPLICATION NUMBER: US/10/812,620	PRIOR FILING DATE: 2002-04-14 PRIOR APPLICATION NUMBER: JP 11-29372 PRIOR FILING DATE: 1999-10-15 NUMBER OF SEQ ID NOS: 2 SEQ ID NO 1	; CURRE	NT FILI	NG DATE	; 2004 IUMBER:	75	-29 10/110,945	
S-10-812-620-1 Sequence 1, Application US/10812620 Publication No. US20050019860A1 GENERAL INFORMATION: APPLICANT: Japan Science and Technology Corporation TITLE OF INVENTION: A novel C-type lectin and its gene FILE REFERENCE: JA904071 CURRENT APPLICATION NUMBER: US/10/812,620 CURRENT FILING DATE: 2004-03-29 PRIOR APPLICATION UNUMBER: US/10/110,945	PRIOR FILING DATE: 1999-1 NUMBER OF SEQ ID NOS: 2 SEQ ID NO 1	; PRIOR ; PRIOR	PILING APPLIC	ATION N	2002-04 IUMBER:	75	11-29372	
S-10-812-620-1 Sequence 1, Application US/10812620 Publication No. US20050019860A1 GENERAL INFORMATION: APPLICANT: Japan APPLICANT: Japan TITLE OF INVENTION: A novel C-type lectin and its gene FILE REFERENCE: JA904071 CURRENT APPLICATION NUMBER: US/10/812,620 CURRENT FILING DATE: 2004-03-29 PRIOR APPLICATION NUMBER: US/10/110,945 PRIOR APPLICATION NUMBER: JP 11-293724	; SEQ ID NO 1	, PRIOF	FILING	DATE:	1999-1()S: 2	-15		
S-10-812-620-1 Sequence 1, Application US/10812620 Publication No. US20050019860A1 GENERAL INFORMATION: APPLICANT: Japan Science and Technology Corporation TITLE OF INVENTION: A novel C-type lectin and its gene FILE REFERENCE: JA904071 CURRENT APPLICATION NUMBER: US/10/812,620 CURRENT FILING DATE: 2004-03-29 PRIOR APPLICATION NUMBER: US/10/110,945 PRIOR APPLICATION NUMBER: JP 11-293724 PRIOR FILING DATE: 1999-10-15 NUMBER OF SEO ID NOS: 2		, SEQ II	NO 1					

```
2.82e-88
774.00
79.07%
66.51%
65.65%
                                                                                          TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                              Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 3
US-09-969-680A-40
                                                                                                                                                       Alignment Scores:
                                                                                                                                                                                                                                             н
                                                                                                                                                                                                                                                              162
                                                                                                                                                                                                                                                                                21
                                                                                                                                                                                                                                                                                                  219
                                                                                                                                                                                                                                                                                                                                                                        339
                                                                                                                                                                                                                                                                                                                                                                                                                            100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   579
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           759
                                                                                                           FEATURE:
                                                                                                                                                               Pred. No.:
                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                               음 &
                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                       8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઢ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            입
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                         243
                                                                                                                                                                                                                            303
                                                                                                                                                                                                                                                              363
                                                                                                                                                                                                                                                                               | ProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrLeuThr 100
                                                                                                                                                                                                                                                                                                  423
                                                                                                                                                                                                                                                                                                                    120
                                                                                                                                                                                                                                                                                                                                    483
                                                                                                                                                                                                                                                                                                                                                      | GlnGluGluGluGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIleGly 140
                                                                                                                                                                                                                                                                                                                                                                        543
                                                                                                                                                                                                                                                                                                                                                                                         160
                                                                                                                                                                                                                                                                                                                                                                                                         603
                                                                                                                                                                                                                                                                                                                                                                                                                            180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               723
                                                                                                                                             ThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyrSer 200
                                                                                                                                                                        40
                                                                                                                                                                                                          9
                                                                                                                                                                                                                                             80
                                                                                                                                                                      41 ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGlnAsnLeuGlnProHis
                                                                                                                                                                                                                                                                                                                                                                                                 SerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCysAla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACCATAAGGGACTCTTCAAACTCCAGGAAGTGAATGATGATAATCCCTGTTTCTACAGT
                                                                                                                                                                                                                                            244 ACCAGATGTGGTGGTAACATATGGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                    MetAenSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAenSer
                                                                                                                                                                                                                                                                                          364 CCTTTGAACTGGAAACATTATCAATCTAGTTGTTATTTTTTTCTCTACGACAACCTTGACC
                                                                                                                                                                                                                                                                                                                                                                       484 CAGGAAGAGCAGGAATTCCTTTTTCGCACAAATCTAAAAGGAAAGAGTTTTATATTGGA
                                                                                                                                                                                                                                                                                                                                                                                        LeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThrGlu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MetProTrpileCysGluMetProGluIleSerProLeuAsp 214
                                                     2517
209
1
4
0
                                                     Length:
Matches:
Conservative:
Mismatches:
                                                                                                                  US-10-812-620-2 (1-214) x US-10-812-620-1 (1-2517)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 40, Application US/09965529
Publication No. US20020182671A1
GENERAL INFORMATION:
APPLICANT: LAL, Preeti
APPLICANT: YUE, Henry
APPLICANT: BANDMAN, Olga
APPLICANT: BANDMAN, Olga
APPLICANT: BANDMAN, AND APPLICANT: BANDMAN, AMIA APPLICANT: BAUGHN, Mariah R. APPLICANT: BAUGHN, Mariah R. APPLICANT: LU, Dyung Aina M. APPLICANT: PATTERSON, Chandra
                                                    1.4e-135
1149.00
98.13%
97.66%
                                                                      Percent Similarity:
Best Local Similarity:
LENGTH: 2517
TYPE: DNA
ORGANISM: Mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 2
US-09-965-529-40
                                            Alignment Scores:
Pred. No.:
                           US-10-812-620-1
                                                                                                                                                                                                                                                              104
                                                                                                                                                                                                                                                                               81
                                                                                                                                                                                                                                             61
                                                                                                                                                                                                                                                                                                                                                      121
                                                                                                                                                                                                                                                                                                                                                                                        141
                                                                                                                                                                                                                                                                                                                                                                                                                            161
                                                                                                                                                                                                                                                                                                                                                                                                                                                              181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  201
                                                                                       Query Match:
DB:
                                                       ..
8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                   ద
                                                                                                                                                                                                                                                                                                                                                                                                     ద
                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                    ò
                                                                                                                                                                       ઠે
                                                                                                                                                                                     8 B
                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                           õ
                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                          õ
                                                                                                                                                                                                                                                                                             유
                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                       õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 유
```

```
218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ||||:::
| CAAATGTTCTTATGGACTGTTGCTGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATC 278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAsp 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    120 ThrGlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              638
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     180 AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       40
                                                                                                                                                                                                                                                                                                                                                                                                                GinValLeuSerTrpThrIleAlaGlyAlaSerJleLeuPheLeuSerGlyCysPhelle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
FILE REFERENCE: PF-0731 USA
CURRENT APPLICATION NUMBER: US/09/965,529
CURRENT FILING 2001-09-26
PRIOR APPLICATION NUMBER: 60/149,641; 60/164,203; PCT/US00/22315
PRIOR FILING DATE: 1999-08-17; 1999-11-09; 2000-08-14
NUMBER OF SEQ ID NOS: 74
SOFTWARE: PERL PROGRAM
SEQ ID NO 40
LENGTH: 968
                                                                                                                                                                                                  ), NAME/KEY: misc_feature
; OTHER INFORMATION: Incyte ID No. US20020182671A1 1521513CB1
US-09-965-529-40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SerMetProTrpileCysGluMetProGluileSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 968
1143
27
2
2
2
                                                                                                                                                                                                                                                                             Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                     US-10-812-620-2 (1-214) x US-09-965-529-40 (1-968)
```

```
639 AAGTCTCTGAGCTTCTGGGATGTAGGGGAGCCCAACAACATAGCTACCCTGGAGGACTGT 698
                                            180 AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspileProCysPheTyr 199
                                                                   TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic ITLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                       200 SerMetProTrpileCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRIOR FILING DATE: 2000-02-27
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR PILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-26
PRIOR FLING DATE: 1999-07-28
PRIOR PLING DATE: 1999-09-09
PRIOR PLING DATE: 1999-09-09
PRIOR PLING DATE: 1999-09-08
PRIOR PLING DATE: 1999-09-08
PRIOR PLING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/21090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A PELLING DATE: 1999-09-15

RAPLICATION NUMBER: PCT/US99/23089

R FILING DATE: 1999-10-05

R FILING DATE: 1999-11-29

R FILING DATE: 1999-11-29

R APPLICATION NUMBER: PCT/US99/28313

R APPLICATION NUMBER: PCT/US99/28313

R APPLICATION NUMBER: PCT/US99/28564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/909,320
CURRENT FILING DATE: 2002-01-04
PRIOR APPLICATION NUMBER: PCT/US00/04414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE: 1999-12-02
APPLICATION NUMBER: PCT/US99/28565
FILING DATE: 1999-12-02
APPLICATION NUMBER: PCT/US99/30095
FILING DATE: 1999-12-16
                                                                                                                                                                                                                                                   Sequence 376, Application US/09909320 Patent No. US20020132240A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
Williams, P. Mickey
Wood, William, I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Hillan, Kenneth, J.
Kljavin, Ivar J.
Mather, Jennie P.
Pan, James
                                                                                                                                                                                                                                                                                                                                                                                                                                    Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gerber, Hanspeter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gurney, Austin L.
                                                                                                                                                                                                                                                                                                                                                                     Botstein, David
                                                                                                                                                                                                                                                                                                                                                                                           Desnoyers, Luc
Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Wei-Qiang
                                                                                                                                                                                                                                                                                                                           APPLICANT: Genentech, Inc. APPLICANT: Ashkenazi, Avi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Fong, Sherman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Goddard, A.
                                                                                                                                                                                                                                        JS-09-909-320-376
                                                                                       음
                                                                                                                                                                       셤
                                            ò
                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100 ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAsp 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ThrGlnGluGluGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     140 GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 279 ACCAGATGTGTGTGACATTTCGCATCTTTCAAACCTGTGATGAGAAAAAGTTTCAGCTA 338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        339 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT 398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GlnValLeuSerTrpThr1leAlaGlyAlaSer1leLeuPheLeuSerGlyCysPhe1le 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           41 ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              60 HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys 79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeu 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NAME/KEY: misc_feature
OTHER INFORMATION: Incyte ID No. US20030124649A1 1521513CB1
                                                          APPLICANT: LAL, Preet; YUE, Henry
APPLICANT: LAL, Preet; YUE, Henry
APPLICANT: LAL, Preet; Yue, Henry
APPLICANT: BURFOND, Nei; AZIMZAI, Yalda
APPLICANT: BURFOND, Nei; AZIMZAI, Yalda
APPLICANT: BATTERSON, Chandra
TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
FILE REFERENCE: PF-0731-1 USA
CURRENT APPLICATION NUMBER: US/09/969,680A
CURRENT FILING DATE: 2001-10-02
PRIOR APPLICATION NUMBER: 60/149,641
PRIOR FILING DATE: 1999-08-17
PRIOR APPLICATION NUMBER: 60/164,203
PRIOR APPLICATION NUMBER: 60/164,203
PRIOR FILING DATE: 1999-11-09
NUMBER OF SEQ ID NOS: 74
SOCTHARE: PERL PROGRAM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-812-620-2 (1-214) x US-09-969-680A-40 (1-968)
Sequence 40, Application US/0969680A Publication No. US20030124649A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2.82e-88
774.00
79.07$
66.51$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-969-680A-40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO 40
LENGTH: 968
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          579
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    쇰
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      δ
```

```
Ashkenazi, Avi
Botstein, David
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; ORGANISM: Homo Sapien
US-09-909-088B-376
                                                                                                                                                                                                                                                       Рап, Јашев
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Alignment Scores:
Pred. No.:
                                                                                                                                                                                          APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                     APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                         162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              283 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT 342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100 ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValVallleAsp 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           120 ThrGlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    223 ACCAGATGTGTGTGACATTTCGCATCTTTCAAACCTGTGATGAGAAAAGTTTCAGCTA 282
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            140 GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        160 GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 180 AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                                   21 GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheile 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      60 HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys 79
                                                                                                                                                                                                                                                                                                                                            20
                                                                                                                                                                                                                                                                                                                                                                                                                                                            41 ThrArgCysValValThrTyrArgSerSerGln1leSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CysProLeuAsnTrpLysHisTyrClnSerSerCysTyrPhePheSerThrThrThrLeu 99
                                                                                                                                                                                                                                                                                                                                         1 MetAsnSerThrLysSerProAlaSerHisHisHhrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                                       200 SerMetProTrplleCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     703 AATTATTTCGGATTTCTGAAATGGTAGGAATAAATCCTTTGAAC 747
                                                                                                                                                                                                         Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                               US-10-812-620-2 (1-214) x US-09-909-320-376 (1-997)
                                                                                                                                                                                                           Length:
Matches:
         PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR PILING DATE: 1999-12-20
PRIOR PELLING DATE: 2000-01-05
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 376
PRIOR APPLICATION NUMBER: PCT/US99/30911
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 376, Application US/0990908BB Patent No. US20020146709Al GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
                                                                                                                                                                                                      2.95e-88
774.00
79.07%
66.51%
65.65%
                                                                                                                               ; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-909-320-376
                                                                                                                                                                                                                               Percent Similarity:
Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 5
US-09-909-088B-376
                                                                                                                                                                                           Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 80
                                                                                                                                                                                                       Pred. No.:
                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                               ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
```

```
## APPLICANT BEORGES, Lac
### APPLICANT BEORGES, Lac
### APPLICANT PRICACE ### APPLICANT
### APPLICANT PRICACE ### APPLICANT
### APPLICANT Geries, ### APPLICANT
### APPLICANT Geries, ### APPLICANT
### APPLICANT Geries, ### APPLICANT
Geries, ### APPLICANT
Goddard, ## APPLICANT
Goddard, ## APPLICANT
GODGARG, ## APPLICANT
GODGARG, ## APPLICANT
GODGARG, ## APPLICANT
GODGARG, ## APPLICANT
FORD, ### APPLICANT
FORD, ### APPLICANT
FORD, ### APPLICANT
### APPLICANT
FORD, ### APPLICANT
FORD, ### APPLICANT
### A
```

us-10-812-620-2.p2n.rnpb

à

ઠ 셤 õ 8

```
21 GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCyaPhelle 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 MetasnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      41 ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                       Transmembrane Polypeptides and Nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    997
27
27
20
20
20
20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length:
Matches:
Conservative:
Mismatches:
Indels:
Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-812-620-2 (1-214) x US-09-905-291A-376 (1-997)
                                                       APPLICANT: ROY, MATGATER AND
APPLICANT: Stewart, Timothy A.
APPLICANT: Timothy A.
APPLICANT: Timothy A.
APPLICANT: Timothy A.
APPLICANT: Williams, P. Mickey
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Acids Encoding the Same
TITLE OF INVENTION NUMBER: DCT/US99/2014
PRIOR FILING DATE: 1999-07-26
PRIOR PILING DATE: 1999-07-26
PRIOR PILING DATE: 1999-07-38
PRIOR PILING DATE: 1999-07-38
PRIOR PILING DATE: 1999-09-13
PRIOR PILING DATE: 1999-09-13
PRIOR PILING DATE: 1999-09-13
PRIOR PILING DATE: 1999-10-05
PRIOR PILING DATE: 1999-11-20
PRIOR PILING DATE: 1999-11-20
PRIOR PILING DATE: 1999-12-20
PRIOR PILING D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2.95e-88
774.00
79.07$
66.51$
65.65$
                        an, James
aoni, Nicholas F.
      Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ORGANISM: Homo Sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JS-09-905-291A-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ď.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            윤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          283 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT 342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGTCTCTGAGCTTCTGGGATGTAGGGAGCCCAACATAGCTACCCTGGAGGACTGT 642
                                                                                                                                                                          ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAsp 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ThrGlnGluGluGluPheleuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGACTGTCAGACCAGGTTGTCGAGGGTCAGTGGCAATGGGTGGACGGCACACCTTTGACA 582
                                                                                                                                                                                                                                                                                                                                                                 223 ACCAGATGTGTTGTGACATTTCGCATCTTCAAACCTGTGATGAAAAAAGTTTCAGCTA 282
                                                                                                                                                                                                                                     GinValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle 40
                                                                                                                                                                                                                                                                                                                                                                                                             79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrTeu 99
                                                                                                                                                    1 MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer 20
                                                                                                                                                                                                                                                                                                                       ThrArgCysValValThrTyrArgSerSerGinIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                                                                                                                                                                                                                         HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SerMetProTrpileCysGluMetProGluileSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2 4 3 2
  Conservative:
Mismatches:
Indels:
                                                                                                       US-10-812-620-2 (1-214) x US-09-909-088B-376 (1-997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 376, Application US/09905291A Patent No. US20020160374A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Godowski, Paul J.
Grimaldi, Christopher J
Gurney, Austin L.
Hillan, Kennech, J.
Kljavin, Ivar J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ferrara, Napoleone
Filvaroff, Ellen
Fong, Sherman
Gao, Wei-Qiang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gerber, Hanspeter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ashkenazi, Avi
Botstein, David
Desnoyers, Luc
Eaton, Dan L.
79.07%
66.51%
65.65%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Patent No. US20020160374A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Benentech, Inc.
APPLICANT: Beneyers, Luc
APPLICANT: Beneyers, Luc
APPLICANT: Earon, Dan L.
APPLICANT: Ferrara, Napolec
APPLICANT: Fong, Sherman
APPLICANT: Goo, Wei-Qiang
APPLICANT: Gerber, Hanspete
APPLICANT: Gerter, Hanspete
APPLICANT: Gerter, Hanspete
APPLICANT: Gerter, Hanspete
APPLICANT: Gerder, Mary
APPLICANT: Gerderitsen, Mary
  Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 6
US-09-905-291A-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   583
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                         41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               463
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                200
                                                                                                                                                                                                                                     51
                                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 523
                                         Query Match:
DB:
                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                      영 장
                                                                                                                                                                                                                                                                                                                                                                                                                                      요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    중 염
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            පි ජි
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               요
```

8

ઠે

```
Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      . No. :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                       160 GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
                                                                                                                                                                                                                                                                                                                                                         642
ThrGlnGluGluGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                                                                                              GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                                                                                                                                                                                    180 AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                                 643 GCCACCATGAGAGACTCTTCAAACCCAAGGCAAAATTGGAATGATGTAACCTGTTTCCTC 702
                                                                                                   CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeu 99
                                  60 HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys
                                                                     283 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT
                                                                                                                                                                                                                                                                                                                                             and Transmembrane Polypeptides and Nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                         200 SerMetProTrpileCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/902,853
CURRENT FILING DATE: 2001-07-10
PRIOR APPLICATION NUMBER: US/09/665,350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: US 60/143,048
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 376, Application US/09902853
Publication No. US20020192659A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Bathenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Betsein, David
APPLICANT: Betsoyers, Luc.
APPLICANT: Eaton, Dan L.
APPLICANT: Falvaroff, Eallen
APPLICANT: Filvaroff, Sherman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Godowski, Paul J.
Godowski, Paul J.
Gurney, Austin L.
Hillan, Kenneth, J.
Kljavin, Ivar J.
Rahavin, James
Pan, James
Pani, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Williams, P. Mickey Wood, William, I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Pan, James
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Wei-Qiang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gao,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 7
US-09-902-853-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                   80
                                                                                                                                                                                                              120
                                                                                                                                                                                                                                                                      140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT
                 용
                                           ð
                                                                   g
                                                                                                 ò
                                                                                                                    a
                                                                                                                                                       ò
                                                                                                                                                                                엄
                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                            Б
                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
```

```
283 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT 342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyalaHisLeuValVallleAsp 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ThrGlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrThrLeu 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       41 ThrargCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 MetAsinSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsinSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GinValLeuSerTrpThrileAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheile
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            60 HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-812-620-2 (1-214) x US-09-902-853-376 (1-997)
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR FILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-28
PRIOR FILING DATE: 1999-07-29
PRIOR FILING DATE: 1999-07-29
PRIOR FILING DATE: 1999-09-08
PRIOR FILING DATE: 1999-09-08
PRIOR PELING DATE: 1999-09-13
PRIOR PELING DATE: 1999-09-15
PRIOR PELICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-10-05
PRIOR FILING DATE: 1999-10-05
PRIOR FILING DATE: 1999-10-05
PRIOR FILING DATE: 1999-10-05
PRIOR FILING DATE: 1999-11-29
PRIOR FILING DATE: 1999-11-29
PRIOR FILING DATE: 1999-11-29
PRIOR FILING DATE: 1999-11-29
PRIOR FILING DATE: 1999-11-20
PRIOR PILING DATE: 1999-11-20
PRIOR PILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-02
PRIOR PILING DATE: 1999-12-02
PRIOR PILING DATE: 1999-12-20
PRIOR PILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR PILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR PILING DATE: 1999-12-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2.95e-88
774.00
79.07%
66.51%
65.65%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; ORGANISM: Homo Sapien
US-09-902-853-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Percent Similarity:
Best Local Similarity:
```

```
TYPE: DNA
GRGANISM: Homo Sapien
US-09-907-824-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local Similarity:
Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                  Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                     Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    643
                                                                                                                                                                                                                                                                                                                                                                                                    Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                      Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                             GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnlleValLeuValGluAspCys 179
                                                  GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                                                                           AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspileProCysPheTyr 199
                                                                                                                                                                                             TCACAGGAGGAGGAATTCCTTCCTACAAGAAACCTAAAATGAGAGAGTTTTTTATT
                                                                                                                                 523 GGACTGTCAGACCAGGTTGTCGAGGGTCAGTGGCAATGGGTGGACGCCACACCTTTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
                                                                                                                                                                                                                                                         200 SerMetProTrplleCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT APPLICATION NUMBER: US/09/907,824
CURRENT FILING DATE: 2001-07-17
PRIOR APPLICATION NUMBER: 09/665,350
PRIOR FILING DATE: 2000-09-18
PRIOR FILING DATE: 2000-09-18
PRIOR FILING DATE: 2000-02-22
PRIOR PELICATION NUMBER: PCT/US00/04414
PRIOR PELICATION NUMBER: US 60/143,048
PRIOR PELICATION NUMBER: US 60/145,698
PRIOR PELING DATE: 1999-07-07
PRIOR PELING DATE: 1999-07-28
PRIOR PELING DATE: 1999-07-28
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR PELING DATE: 1999-09-08
PRIOR PELING DATE: 1999-09-08
PRIOR PELING DATE: 1999-09-08
PRIOR PELING DATE: 1999-09-08
PRIOR PELING DATE: 1999-09-13
PRIOR PELING DATE: 1999-09-13
PRIOR PELING DATE: 1999-09-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    R FILING DATE: 1999-09-08
R APPLICATION NUMBER: PCT/US99/2094
R FILING DATE: 1999-09-13
R FILING DATE: 1999-09-15
R FILING DATE: 1999-09-15
R FILING DATE: 1999-09-15
R FILING DATE: 1999-09-15
R FILING DATE: 1999-09-16
                                                                                                                                                                                                                                                                                                                                 Sequence 376, Application US/09907824 Publication No. US20020197671A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Godowski, Paul J.
Grimaldi, Christopher
Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Paoni, Nicholas F.
Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gao, Wei-Qiang
Gerber, Hanspeter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gerritsen, Mary E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Genentech, Inc.
APPLICANT: Ashkenai, Avi
APPLICANT: Botsein, David
APPLICANT: Beton, Du
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Fong, Sherman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pan, James
                                                                                                                                                                                                                                                                                                                      .09-907-824-376
                                                                                                               160
                   463
                                                  140
                                                                                                                                                                           180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT
                                                                         g
                                                                                                           යි. රි
                                                                                                                                                                                                유
                                                                                                                                                                                                                                       ò
                                                  δ
                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                     g
```

```
ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAsp 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    120 ThrGlnGluGluGluGluPheLeuPheArgThrLy8ProLy8ArgLy8GluPheTyrIle 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AlaThr1leArgAspSerSerAsnSerArgLysAsnTrpAsnAsp1leProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         41 ThrargCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            223 ACCAGATGTGTGACATTTCGCATCTTTCAAACCTGTGATGAGAAAAAGTTTCAGCTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       343 TGTCCATTGAACTGGGAATATTTTCAATCCAGCTGCTACTTCTTTTTTAACTGACACCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 MetAsnSerThrLysSerProAlaSerH18HisThrCluargClyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21 GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            60 HisArgAsnIleLysGlubeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   463 TCACAGGAGGAGCAGGAATTCCTTTCCTACAAGAAACCTAAAATGAGAGAGTTTTTTATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length:
Matches:
Conservative:
Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-10-812-620-2 (1-214) x US-09-907-824-376 (1-997)
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR FILING DATE: 1999-11-29
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-16
PRIOR FILING DATE: 1999-12-16
PRIOR FILING DATE: 1999-12-00
PRIOR FILING DATE: 1999-12-00
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEC ID NO 376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2.95e-88
774.00
79.07$
66.51$
```

79

40

402

99

342

462

ઠે 원

```
106 ATGAATTCATCTAAATCATCTGAAACACAATGCACAGAGAGGAGGATGCTTC---TCTTCC 162
                                                                                                                                                                                                     |||:::
|163 CAAATGTTCTTATGGACTGTTGCTGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATC 222
                                                                                                                                                                                                                                                                                283 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT 342
                                                                                                                                                                                                                                                                                                                                                                                                                                        TCCTGGGCGTTAAGTTTAAAGAACTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAAC 462
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GluserneuserPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  643 GCCACCATGAGAGACTCTTCAAACCCAAGGAAAATTGGAATGAAGCTGTTTCCTC 702
                                                                                                                                                                          GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle 40
                                                                                                 MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer 20
                                                                                                                                                                                                                                                       ThrArgCysValValThrTyrArgSerSerGinIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                                                                                                                                                                                                                                CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrLeu 99
                                                                                                                                                                                                                                                                                                                                   60 HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ThrGlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     200 SerMetProTrpileCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20
                                                          US-10-812-620-2 (1-214) x US-09-907-841-376 (1-997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
Kljavin, Ivar J.
Mather, Jennie P.
Pan, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-904-011-376; Application US/09904011; Sequence 376, Application US/09904011; Publication No. US20030003530A1 GENERAL INFORMATION: APPLICANT: Genentech, Inc.; APPLICANT: Ashkenazi, Avi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gerritsen, Mary E.
Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gerber, Hanspeter
  65.65%
9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Botstein, David
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Desnoyers, Luc
Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Fong, Sherman
Gao, Wei-Qiang
                                                                                                 н
                                                                                                                                                                          21
                                                                                                                                                                                                                                                         41
                                                                                                                                                                                                                                                                                                                                                                                                                80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
APPLICANT:
Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT
                                                                                                 ò
                                                                                                                                    셤
                                                                                                                                                                            ò
                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                            엄
                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                         В
                                                                                                                                                                                                                                                                                                                                                                                                                δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT: Stewart, Timochy A.
APPLICANT: Tumas, Daniel
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Remaining Prior Application data removed - See File Wrapper or PALM.
NUMBER OF SEQ ID NOS: 423
                                          200 SerMetProTrpIleCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              997
143
27
43
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length:
Matches:
Conservative:
Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITLE REFERENCE: 10466-14

CURRENT APPLICATION NUMBER: US/09/907,841

CURRENT PILING DATE: 2001-11-20

PRIOR FILING DATE: 2001-11-20

PRIOR FILING DATE: 2000-02-22

PRIOR PILING DATE: 1999-07-07

PRIOR APPLICATION NUMBER: US 60/145,698

PRIOR APPLICATION NUMBER: US 60/145,698

PRIOR FILING DATE: 1999-07-07

PRIOR FILING DATE: 1999-07-26

PRIOR FILING DATE: 1999-07-28

PRIOR FILING DATE: 1999-09-08

PRIOR FILING DATE: 1999-09-08

PRIOR FILING DATE: 1999-09-08

PRIOR FILING DATE: 1999-09-13

PRIOR FILING DATE: 1999-09-13

PRIOR APPLICATION NUMBER: PCT/US99/21547

PRIOR APPLICATION NUMBER: PCT/US99/21547

PRIOR APPLICATION NUMBER: PCT/US99/21547

PRIOR PRILING DATE: 1999-09-15

PRIOR FILING DATE: 1999-10-05

PRIOR FILING DATE: 1999-10-05

PRIOR FILING DATE: 1999-11-05

PRIOR FILING DATE: 1999-11-29
                                                                                                                                    Sequence 376, Application US/09907841
Publication No. US20020198366A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Kljavin, Ivar J.
Mather, Jennie P.
Pan, James
Paoni, Nicholas F.
Roy, Margaret Ann
                                                                                                                                                                                                                                                                                        Ferrara, Napoleone
Filvaroff, Ellen
Fong, Sherman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Kenneth, J
                                                                                                                                                                                                                                                                                                                                                                       Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2.95e-88
774.00
79.07%
66.51%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gurney, Austin L.
Hillan, Kenneth,
                                                                                                                                                                                        APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Besnoyers, Luc
APPLICANT: Baton, Dan L.
                                                                                                                                                                                                                                                                                                                                                     Wei-Qiang
                                                                                                                                                                                                                                                                                                                                                                                                                Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-907-841-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Percent Similarity:
Best Local Similarity:
                                                                                                                   US-09-907-841-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQ ID NO 376
LENGTH: 997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT
                                                                                                                                                                                                                                                                                            APPLICANT
                                                                                                                                                                                                                                                                                                                                                                           APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT
```

79

402

159

582

522

179

642

```
100 ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAsp 119
                                                                                                                                                                                                                                                                                       120 ThrGlnGluGluGlnGluPheLeuPheArgThrLy8ProLy8ArgLy8GluPheTyrIle 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  180 AlaThrIleArgAepSerSerAsnSerArgLyeAenTrpAenAepIleProCyePheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               643 GCCACCATGAGAGACTCTTCAAACCCAAGGAAATTGGAATGTAACCTGTTTCCTC 702
                                                                                                                                                               CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeu 99
                                                                                                                                                                                            TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic TITLE OF INVENTION: Acids Encoding the Same FILE REFERENCE: 10466-11 CURRENT APPLICATION NUMBER: US/09/903,640 CURRENT FILING DATE: 2001-07-11 PRIOR APPLICATION NUMBER: 09/665,350 PRIOR PLILNG DATE: 2000-09-18 NUMBER OF SEQ ID NOS: 423
                                                                                                CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                             GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         160 GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              200 SerMetProTrpileCysGluMetProGluileSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 376, Application US/09903640 Publication No. US20030017463A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Goddard, A.
Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Stewart, Timothy A. Tumas, Daniel Williams, P. Mickey Wood, William, I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Desnoyers, Luc
Eaton, Dan L.
Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hillan, Kenneth, J.
Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Paoni, Nicholas F.
Roy, Margaret Ann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gurney, Austin L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Fong, Sherman
Gao, Wei-Qiang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pan, James
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               -09-903-640-376
                                                                     9
                                                                                                                   283
                                                                                                                                                            80
                                                                                                                                                                                                                                                                                                                                                                                                                                               140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT
                                                                                                            8
                                                                                                                                                          à
                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                            APPLICANT: Stewart, Intochy A
APPLICANT: Grewart, Intochy A
APPLICANT: William, Daniel
TITLE OF INVENTION: Acide Encoding the Same
CURRENT APPLICATION Acide Encoding the Same
FILE REFERENCE: 1046-62.
FRIOR PAPLICATION NUMBER: 09/65.150
PRIOR APPLICATION NUMBER: 09/65.150
PRIOR APPLICATION NUMBER: 09/65.130
PRIOR APPLICATION NUMBER: 06/145,698
PRIOR APPLICATION NUMBER: 06/145,698
PRIOR APPLICATION NUMBER: 06/146,222
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR APPLICATION NUMBER: PCT/US99/21091
PRIOR APPLICATION NUMBER: PCT/US99/20313
PRIOR APPLICATION NUMBER: PCT/US99/20313
PRIOR APPLICATION NUMBER: PCT/US99/20313
PRIOR APPLICATION NUMBER: PCT/US99/20314
PRIOR PLINING DATE: 1999-11-10
PRIOR APPLICATION NUMBER: PCT/US99/20313
PRIOR PLINING DATE: 1999-11-20
PRIOR PRILING DATE: 1999-11-20
PRIOR PRI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |||:::
| CAAATGTTCTTATGGACTGTTGCTGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATC 222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCyBPheIle 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            41 ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            997
1143
27
27
2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-812-620-2 (1-214) x US-09-904-011-376 (1-997)
                        Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2.95e-88
774.00
79.07$
66.51$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; ORGANISM: Homo Sapien
US-09-904-011-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH: 997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match:
DB:
```

ò 셤

원 ò

ઠે

```
2.95e-88
774.00
79.07%
66.51%
65.65%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA
ORGANISM: Homo Sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-908-093-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       283 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT 342
                                                                                                                                                                                                                                                                                                                                                                                 100 ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAsp 119
                                                                                                                                                                                                                                                                                                                                                                                                                                            120 ThrGlnGluGluGlnGlnPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                                                                                        1 MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer 20
                                                                                                                                                                                                                                       GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle 40
                                                                                                                                                                                                                                                                                    41 ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                        60 HisArgAsnlleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        200 SerMetProTrpileCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       997
143
243
25
26
27
                                                                                 Length:
Matches:
Conservative:
Mismatches:
Indels:
Gaps:
                                                                                                                                                                 US-10-812-620-2 (1-214) x US-09-903-640-376 (1-997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 376, Application US/09908093
Publication No. US20030017498A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Botherazi, Avi
APPLICANT: Botherazi, David
APPLICANT: Betsein, David
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrare, Napoleone
APPLICANT: Filvaroff, Ellen
APPLICANT: Forg, Sherman
                                                                             2.95e-88
774.00
79.07%
66.51%
65.65%
                        ; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-903-640-376
                                                                                                  Percent Similarity:
Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 12
US-09-908-093-376
                                                                      Alignment Scores:
SEQ ID NO 376
                                                                                                                                                                                                                                        21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          160
                                                                                  Pred. No.:
                                                                                             Score:
                                                                                                                                                                                                               유
                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                     ద
                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ∂
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
```

```
APPLICANT: General Mary E
APPLICANT: General Market
APPLICANT: General Market
APPLICANT: General Market
APPLICANT: General Market
APPLICANT: Millian Market
APPLICANT: Penn Jamen Market
APPLICANT: Millian Market
APPLICANTON NUMBER: PCT/USS9/1009
APPLICANTON NUMBER: PCT/U
```

ò 요 8 ద 8 요 ద

ठे

8 6 8 6

```
TITLE OF INVENDED, WILLIAM.

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic TITLE OF INVENTION: Acids Encoding the Same CURRENT OF INVENTION: Acids Encoding the Same FILE REPRENENCE: 10466-17-16

FILE REPRENENCE: 10466-17-16

CURRENT APPLICATION NUMBER: 05/09/096,742

CURRENT FILING DATE: 2000-10-18

FRIOR APPLICATION NUMBER: 05/04/14,048

FRIOR APPLICATION WINDER: 1999-07-26

FRIOR APPLICATION NUMBER: 05/04/146,222

FRIOR FILING DATE: 1999-09-15

FRIOR FILING DATE: 1999-09-15

FRIOR FILING DATE: 1999-09-15

FRIOR FILING DATE: 1999-09-15

FRIOR FILING DATE: 1999-10-15

FRIOR FILING DATE: 1999-10-15

FRIOR FILING DATE: 1999-11-29

FRIOR FILING DATE: 1999-11-29

FRIOR FILING DATE: 1999-11-20

FRIOR FILING DATE: 1999-11-20

FRIOR FILING DATE: 1999-11-20

FRIOR FILING DATE: 1999-11-20

FRIOR APPLICATION NUMBER: PCT/US99/1099

FRIOR FILING DATE: 1999-11-20

FRIOR APPLICATION NUMBER: PCT/US99/1099

FRIOR FILING DATE: 1999-11-20

FRIOR APPLICATION NUMBER: PCT/US99/1099

FRIOR FILING DATE: 1999-11-20

FRIOR FILING DATE: 1999-11-20

FRIOR APPLICATION NUMBER: PCT/US99/1099

FRIOR FILING DATE: 1999-11-20

FRIOR APPLICATION NUMBER: PCT/US99/1099

FRIOR APPLICATION NUMBER: PCT/US99/10999

FRIOR FILING DATE: 1999-12-20

FRIOR APPLICATION NUMBER: PCT/US99/10999

FRIOR FILING DATE: 1999-12-20

FRIOR APPLICATION NUMBER: PCT/US99/10999

FRIOR APPLICATION NUMBER: PCT/US99/10999

FRIOR FILING DATE: 1999-12-20

FRIOR APPLICATION NUMBER: PCT/US99/10999

FRIOR FILING DATE: 1999-12-20

FRIOR APPLICATION NUMBER: PCT/US99/10999

FRIOR APPLICATION NUMBER: PCT/US99/10999

FRIOR APPLICATION NUMBER: PCT/US99/10999

FRIOR APPLICATION NUMBER: PCT/US99/10999

FRIOR FILING DATE: 1999-12-20

FRIOR APPLICATION NUMBER: PCT/US99/10999

FRIOR APPLICATION NUMBER: PCT/US99/10999

FRIOR APPLICATION NUMBER: PCT/US99/10999

FRIOR APPLICATION NUMBER: PCT/US99/10999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |||:::
|CAAATGTTCTTATGGACTGTTGCTGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATC 222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             21 GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 MetasnSerThrLysSerProAlaSerHisHisThrGluargGlyCysPheLysAsnSer 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0010404
7443
7643
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-812-620-2 (1-214) x US-09-906-742-376 (1-997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2.95e-88
774.00
79.07%
66.51%
65.65%
                         Williams, P. Mi
Wood, William,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               , ORGANISM: Homo
US-09-906-742-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                          283 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT 342
                                                                                                                                                                                                                                                                                                                                                                                                                            120 ThrGlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           180 AlaThrIleArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                              GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle 40
                                              20
                                                                                                                                                                                                                      ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                                                                                                                           60 HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys 79
                                                                                                                                                                                                                                                                                                                                                                                                   CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrLeu 99
                                       200 SerMetProTrplleCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ::: AATTATTTTCGGATTTGTGAAATGGTAGGAATAAATCCTTTGAAC 747
US-10-812-620-2 (1-214) x US-09-908-093-376 (1-997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Goddard, A.
Godowski, Paul J.
Gorimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-906-742-376

Sequence 376, Application US/09906742
Publication No. US20030023054A1
GENERAL INFORMATION.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ferrara, Napoleone
Filvaroff, Ellen
Fong, Sherman
Gao, Wei-Qiang
Gerber, Hanapeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pan, James
Paoni, Nicholas F.
Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
                                                                                                                              21
                                                                                                                                                                                                                        47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          140
                                                                                                                                                                                                                                                                                                                                                                                                   80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                643
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        703
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT
```

g

8 8 ે 셤

ò 셤

δ

```
2.95e-88
774.00
79.07%
66.51%
65.65%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQ ID NOS: 423
SEQ ID NO 376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA
ORGANISM: Homo Sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score:
Percent Similarity:
Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-09-906-838-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT: Gervien, Mary E.
APPLICANT: Gerriteen, Mary E.
APPLICANT: Geddard, A.
APPLICANT: Goddard, A.
APPLICANT: Godwski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Twas, Daniel
APPLICANT: Valliams, P. Mickey
APPLICANT: William, P. Mickey
APPLICANT: William, P. Mickey
APPLICANT: William, P. Mickey
APPLICANT: William, P. Aids Encoding the Same
                                342
                                                            100 ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAsp 119
                                                                                                                                             ThrGlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                                                                       GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                                                                                                                                                                                                                GluSerLeuSerPhelrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
                                                                                                                                                                                                                                                                                                                                                                             AlaThr1leArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                              283 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGAICAGGTTCAGTCAAGAATTGT
                                                                                                                                                                                                                                                                       60 HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys
                                                                                                                                                                                                                                                                                                                                                                                                                                           SerMetProTrplleCysGluMetProGluileSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                               ::: |||||||::: | 703 AATTATTTCGGATTTGGAAATGGTAGGAATAAAATCCTTTGAAC 747
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CURRENT APPLICATION NUMBER: US/09/906,838
CURRENT APPLICATION NUMBER: 2001-07-16
CURRENT FILING DATE: 2001-07-16
PRIOR APPLICATION NUMBER: 09/665,350
PRIOR PILING DATE: 2000-09-18
PRIOR PLING DATE: 2000-02-22
PRIOR PLING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 376, Application US/09906838
Publication No. US20030027143A1
GENERAL INFORMATION.
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ferrara, Napoleone
Filvaroff, Ellen
Fong, Sherman
Gao, Wei-Qiang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ashkenazi, Avi
Botstein, David
Desnoyers, Luc
Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-906-838-376
                                                                                                                                                                                                                                                     140
                                                                                                                                                                                                                                                                                                                 160
                                                                                                                                                                                                                                                                                                                                                                               180
                                                                                                                                                                                       120
                                                                                                                                                                                                                                                                                                                                                                                                                                           200
                             셤
                                                            ò
                                                                                    셤
                                                                                                                 8
                                                                                                                                                  吕
                                                                                                                                                                                    ò
                                                                                                                                                                                                            임
                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
```

```
|||:::
|163 CAAATGTTCTTATGGACTGTTGCTGGGATCCCCATCTATTTCTCAGTGCCTGTTTCATC 222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                343 IGTCCATTGAACTGGGAATATTTTCAATCCAGCTGCTACTTTTTTTAACTGACACCATT 402
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100 ThrTrpSerSerSerLeuLygAanCygSerAapMetGlyAlaHisLeuValVallleAsp 119 :::|||::: |||||||||||||||:::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                403 TCCTGGGCGTTAAGTTTAAAGAACTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAAC 462
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ThrGlnGluGluGluGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrLeu 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           41 ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MerasnSerThrLysSerProAlaSerHisHisHisThrGluargGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          21 GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length:
Matches:
Conservative:
Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-812-620-2 (1-214) x US-09-906-838-376 (1-997)
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR PILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR PILING DATE: 1999-09-09
PRIOR PELING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/2094
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR PLING DATE: 1999-09-15
PRIOR PLING DATE: 1999-10-05
PRIOR PLING DATE: 1999-11-29
PRIOR PLING DATE: 1999-11-29
PRIOR PLING DATE: 1999-11-30
PRIOR PLING DATE: 1999-11-29
PRIOR PLING DATE: 1999-11-29
PRIOR PLING DATE: 1999-11-20
PRIOR PLING DATE: 1999-12-02
PRIOR PLING DATE: 1999-12-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels:
```

```
Alignment Scores
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    643
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ∂
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8.9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                      GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
                                                                                                                                           642
                                                                                                                                                                              AlaThrIleArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                              643 GCCACCATGAGAGACTCTTCAAACCCAAGGCAAAATTGGAATGATGTAACCTGTTTCCTC 702
                                                       GGACTGTCAGACCAGGTTGTCGAGGGTCAGTGGCAATGGGTGGACGGCACACCTTTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Stewart, Timothy A. APPLICANT: Stewart, Timothy A. APPLICANT: Stewart, Timothy A. APPLICANT: Turns, Daniel
APPLICANT: William, P. Mickey
APPLICANT: Wood, William, I. APPLICANT: Wood, William, I. TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic FILE REFERENCE: 10466-14
TCACAGGAGGAGCAGGAATTCCTTTCCTACAAGAACCTAAAATGAGAGTTTTTTATT
                                                                                                                          GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr
                                                                                                                                                                                                                                                   SerMetProTrpileCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                                                     FILE KEFERENCE: 10466-14

CURRENT APPLICATION NUMBER: US/09/907,613

CURRENT FILING DATE: 2001-07-17

PRIOR APPLICATION NUMBER: PCT/US00/04414

PRIOR PILING DATE: 2000-02-22

PRIOR APPLICATION NUMBER: US 60/145,698

PRIOR PILING DATE: 1999-07-26

PRIOR PILING DATE: 1999-07-26

PRIOR PLING DATE: 1999-07-28

PRIOR FILING DATE: 1999-07-28

PRIOR PLING DATE: 1999-09-08

PRIOR APPLICATION NUMBER: PCT/US99/20594

PRIOR APPLICATION NUMBER: PCT/US99/20594

PRIOR PLING DATE: 1999-09-13

PRIOR APPLICATION NUMBER: PCT/US99/21547

PRIOR PLING DATE: 1999-09-15

PRIOR FILING DATE: 1999-10-05

PRIOR FILING DATE: 1999-10-15
                                                                                                                                                                                                                                                                                                                                                           Sequence 376, Application US/09907613 Publication No. US20030027145A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Godowski, Paul J.
Grimaldi, Christopher J
Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ferrara, Napoleone
Filvaroff, Ellen
Fong, Sherman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gao, Wei-Qiang
Gerber, Hanspeter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                 Ashkenazi, Avi
Botstein, David
Desnoyers, Luc
Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Goddard, A.
                                                                                                                                                                                                                                                                                      703
                                                                                                       160
                                                                                                                                                                              180
                                                                                                                                                                                                                                                   200
                                                                                                                                                                                                                                                                                  셤
                                                                                                                                g
                                                                                                                                                                                                      ద
                                                                                                                                                                                                                                                 à
                               8
                                                         요
8
                                                                                                                                                                            ò
```

```
ThrTrpSerSerSerLeuLyaAsnCysSerAspMetGlyAlaHisLeuValValIleAsp 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    180 AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |||:::
|CAAATGTTCTTATGGACTGTTGCTGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATC 222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ThrGlnGluGluGluPheLeuPheArgThrLysProLysArgLysGluPheTyrile 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GluSerLeuSerPheTrpAspAlaGlyGluProAspAsnIleValLeuValGluAspCys 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ThrargCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GlnValLeuSerTrpThrlleAlaGlyAlaSerIleLeuPheLeuSerGlyCyePheile
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         60 HisArgAsnileLysGluLeuSerCysTyrSerGluAlaSerGlySerVallysAsnCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SerMetProTrp11eCysGluMetProGlu1leSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                997
143
27
20
20
20
20
                                                                                                                                                                                                                                                                                                                                                                                                                                                Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-812-620-2 (1-214) x US-09-907-613-376 (1-997)
PRIOR AFPLICATION NUMBER: PCI/US99/28319
PRIOR APPLICATION NUMBER: PCI/US99/28564
PRIOR FILING DATE: 1999-11-30
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCI/US99/30095
PRIOR APPLICATION NUMBER: PCI/US99/30091
PRIOR PILING DATE: 1999-12-16
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCI/US99/30910
PRIOR FILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCI/US09/30910
PRIOR FILING DATE: 1999-12-20
PRIOR PILING DATE: 1999-12-20
PRIOR PILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 376
LENGTH: 997
                                                                                                                                                                                                                                                                                                                                                                                                                                   2.95e-88
774.00
79.07%
66.51%
65.65%
                                                                                                                                                                                                                                                                                                                                                                Sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                            ; TYPE: DNA
; ORGANISM: Homo
US-09-907-613-376
```

40

342

79

402

522

рр

703 AATTATTTTCGGATTTGTGAAATGGTAGGAATAAATCCTTTGAAC 747

Search completed: June 9, 2005, 17:44:27 Job time: 594 secs

```
PRIOR FILING DATE: 1999-07-28
PRIOR FILING DATE: 1999-07-28
PRIOR PLICATION NUMBER: PCT/US99/20594
PRIOR PELING DATE: 1999-09-08
PRIOR PELING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR PELING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: US 60/146,222
                                                                               June 9, 2005, 03:50:51; Search time 420 Seconds (without alignments) 9805.973 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                  1 cggtctgttactcttgaact......aaataaagtaataaactatt 2517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 376,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
Sequence
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                                                                                                      2405568
                                                                                                                                                                                                                                                                                                                                                                                                           /cgn2_6/ptodata/1/ina/5A_COMB.seq:*
/cgn2_6/ptodata/1/ina/5B_COMB.seq:*
/cgn2_6/ptodata/1/ina/6A_COMB.seq:*
/cgn2_6/ptodata/1/ina/6B_COMB.seq:*
/cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
/cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
5.1.6
Compugen Ltd
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-907-794A-376
US-09-907-125A-376
US-09-906-775A-376
US-09-906-7075A-376
US-09-908-708-376
US-09-908-618-376
US-09-906-618-376
US-09-906-618-376
US-09-906-618-376
US-09-906-618-29
US-09-389-681-29
US-09-389-681-29
US-09-389-881-29
US-09-433-826B-29
US-09-433-826B-29
US-09-434-759-29
US-09-834-759-29
US-09-834-759-29
US-09-911-470-1
US-09-949-016-15999
US-09-949-016-15999
US-09-949-016-15999
US-09-949-016-15990
US-09-949-016-15990
                                                                                                                                                                                                                                                                   Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                       1202784 seqs, 818138359 residues
GenCore version
Copyright (c) 1993 - 2005
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SUMMARIES
                                                                                                                                                                                                                                                                                                                                   Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                      nucleic search, using sw model
                                                                                                                                                                                              IDENTITY NUC Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                 Issued Patents NA:*
                                                                                                                                                                                                                                                                                               seq length: 0
seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              В
                                                                                                                                   US-10-812-620-1
2517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3.4 56147
3.3 169334
3.3 99370
3.3 99370
3.3 144158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query
Match Length
                                                                                                                                      Title:
Perfect score:
Sequence:
                                                                                                                                                                                                Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Minimum DB Maximum DB M
                                                      OM nucleic
                                                                                                                                                                                                                                         Searched:
                                                                                                                                                                                                                                                                                                                                                                                                 Database
                                                                                  Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Result
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       υυ
```

PRIOR PRIOR PRIOR PRIOR
APPLI FILIN APPLI FILIN
PRIOR APPLICATION NUMBER: PCT/USO0/ PRIOR FILING DATE: 2000-02-22 PRIOR APPLICATION NUMBER: US 60/143 PRIOR FILING DATE: 1999-07-07 PRIOR APPLICATION NUMBER: US 60/145
E 2 E 1 E
MBER: PCT/US 000-02-22 MBER: US 60/ 999-07-07
PCT - 22 US US US US
PCT/US00/0441 -22 US 60/143,048 -07 US 60/145,698
414 48 98
APPLICATION NUMBER: US/09/907,794A FILING DATE: 2001-07-17

```
726 GGTÄGGAATAÅATCCTTTGAÄCAAAGGAAÅATCTCTTTÄÄGAACÅGAAĞGCACAAĞTCAA 785
                                                                                                                                                                ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAAATCCAACATAAGAAAATAT 858
                                                                                                                                                                                                                               786 ATGTGTAAAGAAGGAAGAGCAAGAACATGGCCACACCCCACCGCCCCACACGAGAATTTG 845
                                                                                                                                                                                                                                                                                               CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAGA 915
                                                                                                                                                                                                                                                                                                                                                        846 TGCGCTGAACTTCAAAGGACTTCATAAGTATTTGTTACTCTGATACAAATAAAATA 902
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE NOT INVENTION: ACCORD AND CORREST APPLICATION NUMBER: US/09/905,125A CURRENT APPLICATION NUMBER: US/09/905,125A CURRENT FILING DATE: 2001-07-12 PRIOR APPLICATION NUMBER: US 60/143,048 PRIOR PILING DATE: 1999-07-07 PRIOR PILING DATE: 1999-07-07 PRIOR PILING DATE: 1999-07-26 PRIOR PILING DATE: 1999-07-26 PRIOR PILING DATE: 1999-07-28 PRIOR APPLICATION NUMBER: US 60/146,222 PRIOR APPLICATION NUMBER: US 60/146,222 PRIOR PILING DATE: 1999-07-28 PRIOR PILING DATE: 1999-07-28 PRIOR PILING DATE: 1999-07-28 PRIOR PILING DATE: 1999-07-28 PRIOR PILING DATE: 1999-07-38 PRIOR PILING DATE: 1999-09-13 PRIOR PILING DATE: 1999-09-15 PRIOR PILING DATE: 1999-09-15 PRIOR APPLICATION NUMBER: PCT/US99/21090 PRIOR PILING DATE: 1999-09-15 PRIOR PILING DATE: 1999-09-15 PRIOR PILING DATE: 1999-10-05 PRIOR PILING DATE: 1999-10-05 PRIOR PILING DATE: 1999-11-29 PRIOR PILING DATE: 1999-11-20 PRIOR PILING DATE: 1999-11-20 PRIOR PILING DATE: 1999-11-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ferrara, Napoleone
Filvaroff, Ellen
Fong, Sherman
Gao, Wei-Qiang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Kljavin, Ivar J.
Mather, Jennie P.
Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gerritsen, Mary E.
Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gerber, Hanspeter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Botstein, David
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Genentech, Inc. APPLICANT: Ashkenazi, Avi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Desnoyers, Lu
Eaton, Dan L.
                                                                                                                                                                                                                                                                                            859
                                        744
                                                                                                                                                                   799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
APPLICANT:
                                                                                      유
                                                                                                                                                                ŝ
                                                                                                                                                                                                                     名
                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           207 CGGGGCCTCCATCCTGTTCTCAGTGGCTGTTTCATCACCAGATGTGGTAACATATCG 266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AGAGAGAGAGAAAAAAAAAGCCAAAGAGAGAAAAAAAATGAATTCATCTAAATCATCTGA 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CAGCTCTCAAA---TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC 323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         306 ciectacaatrarggarcaggircagreaagaatrerigiceatrgaacregaarafir 365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 366 TCAATCCAGCTGCTACTTCTTTCTACTGACACCATTTCCTGGGCGTTAAGTTTAAAGAA 425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       426 CTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAACTCACAGGAGGAGCAGGAATTCCT 485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC 623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          624 TGGGGAGCCCAACAATATAGTTTTGGTGGAGCACTGTGCCACCATAAGGGACTCTTCAAA 683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT 743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CCCAAGGCAAATTGGAATGATGTAACCTGTTTCCTCAATTATTTTCGGATTTGTGAAAT 725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               147 ATCCCACCACACAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           186 TGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATCACCAGATGTGTTGTGACATTTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          246 CATCTITCAAACCIGIGAIGAAAAAGITICAGCIACCIGAGAAITICACAGAGCICIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TCAATCTAGTTGTTATTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTGGACTGACAGACCAGGTGGTAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 439.4; DB 4;
Pred. No. 6.9e-105;
0; Mismatches 216;
             FRIOR FILING DATE: 1939-10-05
PRIOR APPLICATION NUMBER: PCT/US99/23089
PRIOR FILING DATE: 1939-10-05
PRIOR FILING DATE: 1939-11-29
PRIOR FILING DATE: 1939-11-29
PRIOR FILING DATE: 1939-11-30
PRIOR PLING DATE: 1939-11-30
PRIOR PLING DATE: 1939-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR FILING DATE: 1939-12-02
PRIOR FILING DATE: 1939-12-02
PRIOR FILING DATE: 1939-12-02
PRIOR FILING DATE: 1939-12-06
PRIOR FILING DATE: 1999-12-06
PRIOR FILING DATE: 1999-13-06
PRIOR FILING DAT
FILING DATE: 1999-09-15
APPLICATION NUMBER: PCT/US99/23089
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        17.5%;
72.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 72.9
Matches 610; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-907-794A-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             684
```

원 ò g ò g ò පු ò ద ò 셤 ò 셤 ઠે ద ò g à g ò

ઠે

us-10-812-620-1.rni

```
846 TGCGCTGAACTTCAAAGGACTTCATAAGTATTTGTTACTCTGATACAATAAAAATA 902
         859 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAGA 915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timethy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILE REFERENCE: 10466-114

CURRENT PELLING DATE: 2001-07-10

PRIOR PELLING DATE: 2001-07-10

PRIOR PILING DATE: 2000-02-22

PRIOR PILING DATE: 1090-07-07

PRIOR APPLICATION NUMBER: US 60/145,698

PRIOR PILING DATE: 1999-07-26

PRIOR PELLING DATE: 1999-07-26

PRIOR PELLOATION NUMBER: US 60/145,698

PRIOR PILING DATE: 1999-07-26

PRIOR PELLOATION NUMBER: PCT/US99/20594

PRIOR PILING DATE: 1999-09-08

PRIOR PELLOATION NUMBER: PCT/US99/20594

PRIOR PELLOATION NUMBER: PCT/US99/20594

PRIOR PELLOATION NUMBER: PCT/US99/21697

PRIOR APPLICATION NUMBER: PCT/US99/2854

PRIOR APPLICATION NUMBER: PCT/US99/2854

PRIOR APPLICATION NUMBER: PCT/US99/28564

PRIOR APPLICATION NUMBER: PCT/US99/28564

PRIOR APPLICATION NUMBER: PCT/US99/28565

PRIOR PILING DATE: 1999-11-30

PRIOR APPLICATION NUMBER: PCT/US99/28565

PRIOR PILING DATE: 1999-12-02

PRIOR PILING DATE: 1999-12-02

PRIOR APPLICATION NUMBER: PCT/US99/28565

PRIOR PILING DATE: 1999-12-02

PRIOR PILING DATE: 1999-12-02

PRIOR PILING DATE: 1999-12-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FILING DATE: 1999-12-20
APPLICATION NUMBER: PCT/US99/30999
APPLICATION DATE: 1999-12-20
APPLICATION NUMBER: PCT/US00/00219
                                                                                                                                                                       Sequence 376, Application US/09902775A
Patent No. 6686451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                  Fong, Sherman
Gao, Wei-Qiang
Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                             Eaton, Dan L.
Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hillan, Kenneth, J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gurney, Austin L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                               APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
                                                                                                                                                                                                                                                                                                                    Desnoyers, Lu
Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Рап, Јашев
                                                                                                                                                                                                                      GENERAL INFORMATION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PRIOR
PRIOR
PRIOR
                                                 a
         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         36 TCAATCCAGCTGCTACTTCTTTCTACTGACACCATTTCCTGGGCGTTAAGTTTAAAGAA 425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCCAGAAATAAGTCCTCAGGACTAAGTGCAA----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           306 chechacaarnanegarcagerrcagrcaagaarnerrercarreaacregeaararr 365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC 623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  426 CTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAACTCACCAGGAGGAGCAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CGGGCCTCCATCCTCTTCTCAGTGCTGTTTCATCACCAGATGTGTCGTACGTTTTCATCATCATCACAGATGTCTCGTAACATATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TTCCTACAAGAAACCTAAAATGAGAGAGTTTTTTATTGGACTGTCAGACCAGGTTGTTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            624 TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          606 AGGGGAGCCCAACAAACATAGCTACCCTGGAGGACTGTGCCACCATGAGAGACTCTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACAACTCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGAGAGAGAGAAAAAAAAACAAAGAGAGAAAAAAAAAATGAATTCATCTAAATCATCTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATCCCACCACACAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AACACAATGCACAGAGAGGGATGCTTC---TCTTCCCAAATGTTCTTATGGACTGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     186 TGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATCACCAGATGTGTTGTGACATTTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CAGCTCTCAAA---TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                246 CATCTTTCAAACCTGTGATGAAAAAGTTTCAGCTACCTGAGAATTTCACAGAGCTCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCAATCTAGTTGTTATTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        444 TIGCICAGACAIGGGGGCICACCIGGIGGITAICGACACACAGGAAGAGAGAAIICCI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITICGCACAAAATCTAAAAGGAAAGAGTTTTATATATTGGACTGACAGACCAGGTGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cccaaccaaaarriccarcaaccrcrrrrccrcaarrarrrcccaarr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAATCCAACATAAGAAATAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                11;
                                                                                                                                                                                                                                                                                                                                                                                                                  Length 997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                               Score 439.4; DB 4;
Pred. No. 6.9e-105;
0; Mismatches 216;
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR PPLICATION NUMBER: PCT/US99/30095
PRIOR PILING DATE: 1999-12-16
PRIOR PLLING DATE: 1999-12-16
PRIOR PILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR PLLING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/30999
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR PILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
                                                                                                                                                                                                                                                                                                                                                                                                             Query Match 17.5%;
Best Local Similarity 72.9%;
Matches 610; Conservative (
                                                                                                                                                                                                                                                                                                                    ; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-905-125A-376
                                                                                                                                                                                                                                                                                           LENGTH: 997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  726
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
```

```
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TILLE DE LOF INVENTION: ACIDGE BILCOLLING LIE SAMES
CURRENT APPLICATION NUMBER: US/09/906,700
CURRENT APPLICATION NUMBER: US/09/906,700
CURRENT FILING DATE: 2000-09-18
PRIOR PELING DATE: 1999-07-07
PRIOR PELING DATE: 1999-07-07
PRIOR PELING DATE: 1999-07-26
PRIOR PELING DATE: 1999-07-26
PRIOR PELING DATE: 1999-07-26
PRIOR PELING DATE: 1999-07-26
PRIOR PELING DATE: 1999-09-18
PRIOR PELING DATE: 1999-09-18
PRIOR PELING DATE: 1999-09-18
PRIOR PELING DATE: 1999-09-13
PRIOR PELING DATE: 1999-09-15
PRIOR PELING DATE: 1999-10-05
PRIOR PELING DATE: 1999-10-05
PRIOR PELING DATE: 1999-10-05
PRIOR PELING DATE: 1999-11-29
PRIOR PELING DATE: 1999-11-29
PRIOR PELING DATE: 1999-11-29
PRIOR PELING DATE: 1999-11-20
PRIOR PELING DATE: 1999-11-20
PRIOR PELING DATE: 1999-11-20
PRIOR PELING DATE: 1999-11-20
PRIOR PELING DATE: 1999-12-00
PRIOR PELING DATE: 1999-10-00
PRIOR PELING DATE:
                                                                                                                                                                                                                                                                                                  Godowaki, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillain, Kenneth, J.
Kijavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
                                                                                                                                           Napoleone
                                                                                                                                                                                                                                                                                                                                                                                                                                           Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                                                    Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                              Filvaroff, Ellen
Fong, Sherman
Gao, Wei-Qiang
                        Genentech, Inc.
Ashkenazi, Avi
Botstein, David
                                                                                             Desnoyers, Lu
Eaton, Dan L.
                                                                                                                                                                                                                                                                                 Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-906-700-376
                                                                                                                                           Ferrara,
                                                                     APPLICANT:
APPLICANT:
                                                                                                                   APPLICANT:
                                                                                                                                        APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                             APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT
                                                                                                                                                                                                              APPLICANT
                                                                                                                                                                                                                                                                                                         APPLICANT
                                                                                                                                                                                                                                      'n
                                                                                                                                                                                                                                                                                    146
                                                                                                                                                                                                                                                                                                                                                                             206
                                                                                                                                                                                                                                                                                                                                                                                                                        185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             605
                                                                                                                                                                                                                                                                                                                             AGAGAGAGAGAAACAAAAACCAAAGAGAGAGAAAAAAATGAATTCATCTAAATCATCTGA 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     666 CCCAAGGCAAATTGGAATGATGTAACCTGTTTCCTCAATTATTTTCGGATTTGTGAAAT 725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAATCCAACATAAGAAAATAT 858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   786 ATGTGTAAAGAAGGAAGAAGAACATGGCCACACACCACCCCCCACACAGAATTTG 845
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              366 rcaarccascracricrirrcracrscaccaccrirccasscacerrascriraas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                564 GGGTCAGIGGCAATGGGAGGAIGAIACACCTITICACAGAGICCCTGACCTICTGGGAIGC 623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT 743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        726 GGTAGGAÁTAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACAACTCAA 785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAGA 915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         207 CGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACCAGATGTGTCGTAACATATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              186 TGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATCACCAGATGTGTTGAGACATTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CAGCTCTCAAA---TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CATCTTTCAAACCTGTGATGAGAAAAAGTTTCAGCTACCTGAGAATTTCACAGAGCTCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  crecracaarrargearcagerrcagrcaagaarrerrerccarraaacregeaararrr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TCAATCTAGTTGTTATTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 426 CTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAACTCACAGGAGGAGGAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 624 TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     606 AGGGAGCCCAACAACATAGCTACCCTGGAGGACTGTGCCACCATGAGAGACTCTTCAAA
                                                                                                                                                                                                                                                                               147 ATCCCACACACAGAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTGGACTGACAGACCAGGTGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              444 TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGAGCAGGAATTCCT
                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                      11;
                                                                                                                                                                                      Length 997;
                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                 0; Mismatches 216;
                                                                                                                                                                                      DB 4;
                                                                                                                                                                                      Score 439.4; DB 4;
Pred. No. 6.9e-105;
                                                                                                                                                                                 udery Match 17.5%;
Best Local Similarity 72.9%;
Matches 610; Conservative 0
PRIOR FILING DATE: 2000-01-05
                     NUMBER OF SEQ ID NOS: 423
SEQ ID NO 376
LENGTH: 997
                                                                                        TYPE: DNA
ORGANISM: Homo Sapien
                                                                                                                                        US-09-902-775A-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        199
                                                                                                                                                                                                                                                                                                                             69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 859
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠ
                                                                                                                                                                                                                                                                                                                             유
                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
```

17.5%; Score 439.4; DB 4; Length 997;

Query Match

US-09-906-700-376; Sequence 376, Application US/09906700; Patent No. 6723535

```
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Hillan, Kenneth, J.
APPLICANT: Mather, Jennie P.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, James
APPLICANT: Pan, James
APPLICANT: Pan, Margaret Ann
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: William, P. Mickey
APPLICANT: William, Secretain Secretain
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Acide Encoding the Same
FILE REFERENCE: GNR. 16.18P2C12
CURRENT APPLICATION NUMBER: US/09/903,603A
CURRENT FILING DATE: 2001-07-11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CURRENT FILING DATE: 2001-07-11
PRIOR APPLICATION NUMBER: PCT/USO0/04414
PRIOR FILING DATE: 2000-02-22
PRIOR FILING DATE: 1999-07-07
PRIOR FILING DATE: 1999-07-07
PRIOR FILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-28
PRIOR PLING DATE: 1999-07-28
PRIOR FILING DATE: 1999-07-28
PRIOR FILING DATE: 1999-09-13
PRIOR FILING DATE: 1999-09-13
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-11-29
PRIOR FILING DATE: 1999-12-02
PRIOR PILING DATE: 1999-12-03
                                                                                                                    Godowski, Paul J.
Grimaldi, Christopher
Gurney, Austin L.
Hillan, Kenneth, J.
                                  Gerber, Hanspeter
Gerritsen, Mary E.
           Gao, Wei-Qiang
                                                                                            Goddard, A.
                                                                                            146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           485
                                                                                                                                                                                                                                                                                                                   266
                                                                                                                                                                                                  147 ATCCCACCACACAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC 206
                                                                                                                                                                                                                                                                                                                                                                                                                            CAGCTCTCAAA----TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC 323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   246 CAICTITCAAACCTGTGAGAAAAAGTTTCAGCTACCTGAGAATTTCACAGAGCTCTC 305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              306 ciectricartrargearcagericagicaagaarterigicartigaacteggaaratri 365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            36 TCAATCCAGCTGCTACTTCTTTCTACTGACACCATTTCCTGGGCGTTAAGTTTTAAAGAA 425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTGGACTGACAGACCAGGTGGTGGA 563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GGGTCAGTGGCAATGGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC 623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 546 GGGTCAGTGGCAATGGGTGGACGGCACACCTTTGACAAAGTCTCTGAGCTTCTGGGATGT 605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            624 TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCCACCATAAGGGACTCTTCAAA 683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AGGGAGCCCAACAACATAGCTACCCTGGAGACTGTGCCACCATGAGAGACTCTTCAAA 665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT 743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         726 GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAAGGCACAACTCAA 785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAATCCAACATAAGAAAATAT 858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        186 ATGTGTAAAGAAGGAAGAAGAAGAACATGGCCACACCCCACCGCCCCACGAGAAATTTG 845
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               359 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAGA 915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   946 TGCGCTGAACTTCAAAGGACTTCATAAGTATTTGTTACTCTGATACAAATAAAATA 902
                                                                                                                         186 TGGGATCCCCCATCCTATTTCTCAGTGCCTGTTTCATCACCAGATGTGTTTGTGACATTTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         426 CTGCTCAGCCATGGGGGGTTCACCTGGTGTTATCAACTCACAGGAGGAGCAGGAATTCCT
                                                                                         AACACAATGCACAGAGAGAGGATGCTTC---TCTTCCCAAATGTTCTTATGGACTGTTGC
                                                                                                                                                                                                                                                                                                                207 CGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACCAGATGTGTCGTAACATATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TCAATCTAGTTGTTATTTTTTCTCTAGGACAACCTTGACCTGGTCATCAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    444 TIGCICAGACAIGGGGCTCACCIGGIGGITAICGACACACAGGAAGAGCAGGAAITCCI
                                        Gaps
                                     11;
     72.9%; Pred. No. 6.9e-105;
iive 0; Mismatches 216; Indels
                                  610; Conservative
Best Local Similarity
Matches 610; Conserv
                                                                                                                                                                                                                                                         129
                                                                                                                                                                                                                                                                                                                                                                                                                            267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
```

```
147 ATCCCACCACACAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC 206
                                                                                                                    87 AGAGAAAGGAAAAAGGAAGAAAAAGGAAAAAGGAAGAATGAATTCAACCAAATCGCCTGC
                                                                                         Gape
                                                                                      11;
                                                       Length 997;
                                                                                      Indels
                                                        Score 439.4; DB 4;
Pred. No. 6.9e-105;
0; Mismatches 216;
                                                        Query Match
Best Local Similarity 72.9%;
Matches 610; Conservative C
TYPE: DNA
ORGANISM: Homo Sapien
                          US-09-903-603A-376
                                                                                                                                                    69
                                                                                                                                                 원
                                                                                                                      ઠે
                                                                                                                                                                                ò
```

; Sequence 376, Application US/09903603A; Patent No. 6767995

US-09-903-603A-376

RESULT 5

GENERAL INFORMATION:

Ferrara, Napoleone Filvaroff, Ellen

APPLICANT: Generach, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Filvaroff, Ellen
APPLICANT: Filvaroff, Ellen

ò 요 ò 셤 8 g 8 셤 ò 임 ò d ò ద ò

324

384

504

564

```
69 AGAGAGAGAGAAACAAAAAAACCAAAGAGAGAGAAAAAATGAATTCATCTAAATCATCTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    147 ATCCCACCACACAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     207 CGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACCAGATGTGTCGTAACATATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Transmembrane Polypeptides and Nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 IndelB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 439.4; DB 4;
Pred. No. 6.9e-105;
0; Mismatches 216;
                                                    APPLICANT: Fean; Nicholas F.
APPLICANT: Seawart, Timothy A.
APPLICANT: Stewart, Timothy A.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumes Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Williams, P. Mickey
APPLICANT: Williams, P. Mickey
APPLICANT: Williams, P. Mickey
TITLE OF INVENTION: Secreted and Transmembrane P
TITLE OF INVENTION: Secreted and Transmembrane P
TITLE OF INVENTION: Acids Encoding the Same
CURRENT PLING DATE: 10466-14
CURRENT FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: DCT/USO9/04414
PRIOR FILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-26
PRIOR PELING DATE: 1999-07-26
PRIOR PELING DATE: 1999-07-38
PRIOR FILING DATE: 1999-07-38
PRIOR PELING DATE: 1999-09-13
PRIOR PELING DATE: 1999-09-13
PRIOR PELING DATE: 1999-09-15
PRIOR PELING DATE: 1999-09-15
PRIOR PELING DATE: 1999-09-15
PRIOR PELING DATE: 1999-09-15
PRIOR PELING DATE: 1999-10-20
PRIOR PELING DATE: 1999-11-29
PRIOR PELING DATE: 1999-11-29
PRIOR PELING DATE: 1999-11-20
PRIOR PELING DATE: 1999-11-20
PRIOR PELING DATE: 1999-11-20
PRIOR PELING DATE: 1999-12-02
PR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 72.9%;
Matches 610; Conservative
                                      Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-904-920A-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                              246 CATCITICAAACCIGIGAIGAAAAAGTIICAGCIACCIGAGAAITICACAGAGCICIC 305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               486 TTCCTACAAGAACCTAAAATGAGAGAGTTTTTATTGGACTGTCAGACCAGGTTGTCGA 545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   606 AGGGGAGCCCAACAACATAGCTACCCTGGAGGACTGTGCCACCATGAGAGACTCTTCAAA 665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        744 GCCAGAAATAAGTCCTCAGGACTAAGTGCAA----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            799 ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAATTCCAACATAAGAAAATAT 858
129 AACACAATGCACAGAGAGGGATGCTTC---TCTTCCCAAATGTTCTTATGGACTGTTGC 185
                                                                                                                                                                                                      CAGCTCTCAAA---TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC 323
                                                                                                                                                                                                                                                                                                                                          CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCAATCTAGTTGTTATTTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA 443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    546 GGGTCAGTGGCAATGGGTGGACGGCACACCTTTGACAAAGTCTCTGAGCTTCTGGGATGT 605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  624 TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA 683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          726 GGTÄGGAATAAATCCTTTGAACAAÄGGAAAATCTCTTTAÄGAACAGAAĞGCÄCACAACTCAA 785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       859 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAGA 915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        846 TGCGCTGAACTTCAAAGGACTTCATAAGTATTTGTTACTCTGATACAATAAAATA 902
                                                                                                                                                                                                                                                                                                                                                                                        306 CIGCTACAATTATGGATCAGGTTCAGTCAAGAATTGTTGTCCATTGAACTGGGAATATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            444 TIGCTCAGACAIGGGGGTCACCIGGTGGTTATCGACACACACAAGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    207 CGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACCAGATGTGTGTAGTAACATATCG
                                                                                                                      186 TGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATCACCAGATGTGTTGTGACATTTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITICGCACAAAATCTAAAAGGAAAGAGTTTTATATTGGACTGACAGGTGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         426 CIGCICAGCCAIGGGGCTCACCIGGIGGITATCAACTCACAGGAGGAGCAGGAATICCI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 376, Application US/09904920A
Patent No. 6806352
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Fong, Sherman
Gao, Wei-Qiang
Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-904-920A-376
```

684

ઠે

엄 ò

a

g

ò g 8 g

266

246 carcinicaaaccngigangaaaaaaaginicagciaccigagaanncacagagcicic 305

267

a ò

Goddard, A.
Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
Kljavin, Ivar J.

APPLICANT: APPLICANT: APPLICANT:

APPLICANT: APPLICANT:

APPLICANT

APPLICANT:

APPLICANT: APPLICANT: APPLICANT:

APPLICANT

APPLICANT: APPLICANT:

CAGCTCTCAAA---TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC

```
US-09-909-064-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                          545
                                                                                                                             485
306 chéchachathangancagenteaghteagaatherterceangaacheggaanaint 365
                                                              425
                                                                                             503
                                                                                                                                                            563
                                                                                                                                                                                                                                                                                                                    665
                                                                                                                                                                                                                                                                                                                                                                                                              GCCAGAAATAAGTCCTCAGGACTAAGTGCAA----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                                                                                                                                                                                                               726 GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACAACTCAA 785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAATCCAACATAAGAAATAT 858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC 623
                                                                                                                                                                                                                                                                                    624 TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA 683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          859 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGAAAAAA 915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        846 TGCGCTGAACTTCAAAGGACTTCATAAGTATTTGTTACTCTGATACAAATAAAATA 902
                                                                                                             CTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAACTCACAGGAGGAGGAGGAATTCCT
                                                                                                                                                                             APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timoth A.
APPLICANT: Tunas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
                               TCAATCTAGTTGTTATTTTTCTCTACGACAACCTTGACCTGGTCAAGTTTAAAGAA
                                                            366 rcaarccagcricrircrirricracricatications
                                                                                             444 TIGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT
                                                                                                                                                           TTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTTGGACTGACAGACCAGGTGGTGGA
                                                                                                                                                                                                                                                                                                         606 AGGGAGCCCAACAACATAGCTACCCTGGAGGACTGTGCCACCATGAGAGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                  CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 376, Application US/09909064 Patent No. 6818449
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gurney, Austin L.
Hillan, Kenneth, J.
Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gao, Wei-Qiang
Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botsein, David
APPLICANT: Besnoyers, Luc
APPLICANT: Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Fong, Sherman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GENERAL INFORMATION:
                               384
                                                                                                                            426
                                                                                                                                                         504
                                                                                                                                                                                                                       564
                                                                                                                                                                                                                                                                                                                                                                               999
                                                                                                                                                                                                                                                                                                                                                                                                              744
                                                                                                                                                                                                                                                                                                                                                  684
                               ò
                                                       g
                                                                                           δ
                                                                                                                                                      ò
                                                                                                                                                                                셤
                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                            a
                                                                                                                                                                                                                                                                                  ð
                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                à
                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                       8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ે
```

```
185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AGAGAGAGAGAACCAAAAACCAAAGAGAGAGAAAAAAATGAATTCATCTAAATCATCTGA 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     rcaarccascriscrircrirricracreacaccarrrrcrissscriraastriraasaaa 425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               147 ATCCCACCACACAGAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCGACGATAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         207 CGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACAGATGTGTCGTAACATATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                186 TGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATCACCAGATGTGTTGTGACATTTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CAGCTCTCAAA----TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          crecracaarraregarcaegricaercaagaarrerrerecarreaacreegaararr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TCAATCTAGTTGTTATTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               carcitricaaaccrgrgargaaaaagrirrcagcraccrgagaarrrcacagagcrcrc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 439.4; DB 4;
Pred. No. 6.9e-105;
0; Mismatches 216;
Acids Encoding the Same
                                                                                            CURRENT FILING DATE: 2001-07-18
PRIOR FILING DATE: 2001-07-18
PRIOR FILING DATE: 1000-02-22
PRIOR FILING DATE: 1000-02-22
PRIOR FILING DATE: 1990-07-07
PRIOR FILING DATE: 1990-07-07
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR PELLOR DATE: 1990-09-08
PRIOR FILING DATE: 1990-09-08
PRIOR FILING DATE: 1990-09-13
PRIOR PELLOR DATE: 1990-09-13
PRIOR PELLOR DATE: 1990-09-13
PRIOR PELLOR DATE: 1990-09-15
PRIOR PELLOR DATE: 1990-09-15
PRIOR PELLOR DATE: 1990-09-15
PRIOR PELLOR DATE: 1990-09-15
PRIOR PELLOR NUMBER: PCT/US99/21090
PRIOR PELLOR DATE: 1990-09-15
PRIOR PELLOR DATE: 1990-10-15
PRIOR PELLOR DATE: 1990-11-29
PRIOR PELLOR NUMBER: PCT/US99/28564
PRIOR PELLOR DATE: 1990-11-20
PRIOR PELLOR DATE: 1990-11-20
PRIOR PELLOR DATE: 1990-12-02
PRIOR PELLOR DATE: 1990-12-02
PRIOR PELLOR DATE: 1990-12-16
PRIOR PELLOR DATE: 1990-12-20
                   FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/909,064
CURRENT FILING DATE: 2001-07-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 72.9%;
Matches 610; Conservative
```

```
564 GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC 623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; TYPE: DNA
; ORGANISM: Homo
US-09-905-381A-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID NO 376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ଚ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
     485
                                       563
                                                                     545
                                                                                                     623
                                                                                                                                                                    683
                                                                                                                                                                                       606 AGGGGGGCCCAACAACATAGCTACCCTGGAGGACTGTGGCCACCATGAGAGACTCTTCAAA 665
                                                                                                                                                                                                                                                                                                  744 GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                                                                                                                                 799 ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAAATCCAACATAAGAAAATAT 858
                                                                                                                                                                                                                                                                                                                                                                                                 546 GGGTCAGTGGCAATGGGTGGACGGCACACCTTTGACAAAGTCTCTGAGCTTCTGGGATGT 605
                                                                                                                                                                                                                                   684 CICCAGGAAGAACIGGAAIGAIAAICCCIGIIICIACAGIAIGCCIIGGAIIIGIGAGAI 743
                                                                                                                                                                                                                                                                  666 CCCAAGGCAAAATTGGAATGATGATGTTAACCTGTTTCCTCAATTATTTTCGGATTTGTGAAAT 725
                                                                                                                                                                                                                                                                                                                               726 GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAAGGCACAACTCAA 785
                                                                                                                                                                                                                                                                                                                                                                                                                                   859 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAGA 915
                                                                                                                                                                                                                                                                                                                                                                                                                                                             846 IGCGCTGAACTICAAAGGACTICATAAGTATITIGTTACTCTGATACAATAAAATA 902
                                                                                                    GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE OF INVENTION: Acids Encoding the Same
TITLE OF INVENTION: Acids Encoding the Same
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/905,381A
CURRENT FILING DATE: 2001-07-13
PRIOR APPLICATION NUMBER: PCT/US00/0414
PRIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-07
PRIOR PLING DATE: 1999-07-07
PRIOR PLING DATE: US 60/143,048
                                                                     486 TTCCTACAAGAAACCTAAAATGAGAGAGTTTTTTATTGGACTGTCAGACCAGGTTGTCGA
                                                                                                                                                                   624 TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA
   426 crecricaeccaresesecreacereserestrareaacecaesaseaseaarrecer
                                     TTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTTGGACTGACCAGGTGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 376, Application US/09905381A
Patent No. 6818746
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Goddard, A.
Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
Williams, P. Mickey
Wood, William, I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Hillan, Kenneth, J.
Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gurney, Austin L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botsein, David
APPLICANT: Beton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 , Sherman
Wei-Qiang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Рап, Јашев
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Fong,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 8
US-09-905-381A-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT:
APPLICANT:
APPLICANT:
                                     504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                     564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                                                                                          유
                                                                                                                                                                                                                                                                                                                                                                                                a
                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
유
                                   ò
                                                              В
                                                                                                  ò
                                                                                                                            8
                                                                                                                                                                   ઠે
                                                                                                                                                                                            g
                                                                                                                                                                                                                       ਨੇ
```

```
147 ATCCCACACACAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC 206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    306 crącracaarranggarcaggricagrcaagaarrigrigricarrigaacreggaaratr 365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             rcaarccagcrecracrircrircracrecaccarrircregecerraagriraaagaa 425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           426 crecrcaeccaresesescrcaecresresraricaaereaesesesesesesesaarreer 485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      186 TGGGATCCCCATCCTATTTCTCAGGCCTGTTTCATCACCAGATGTGTTGTGACATTTTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAGCTCTCAAA----TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          246 CATCITICAAACCIGIGAIGAAAAAGTITICAGCIACCIGAGAAITICACAGAGCICIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATATTGGACTGACAGACCAGGTGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    486 Trccracaagaaccraaaargagagagrirrrrarrggacrigrcagaccaggrigreaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACCAGATGTGTCGTAACATATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   129 AACACAATGCACAGAGAGGATGCTTC---TCTTCCCAAATGTTCTTATGGACTGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCAATCTAGTTGTTATTTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 439.4; DB 4;
Pred. No. 6.9e-105;
0; Mismatches 216;
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR PLILING DATE: 1999-07-28
PRIOR PLILING DATE: 1999-07-28
PRIOR PLILING DATE: 1999-09-08
PRIOR PLLING DATE: 1999-09-18
PRIOR PLLING DATE: 1999-09-13
PRIOR PLLING DATE: 1999-09-15
PRIOR PLLING DATE: 1999-10-05
PRIOR PLLING DATE: 1999-11-29
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR PLLING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-06
PRIOR PLLING DATE: 1999-12-07
PRIOR PLLING DATE: 1999-12-06
PRIOR PLLING DATE: 1999-12-07
PRIOR PLLING DATE: 1999-12-06
PRIOR PLLING DATE: 1999-12-06
PRIOR PLLING DATE: 1999-12-07
PRIOR PLLING DATE: 1999-12-06
PRIOR PLLING DATE: 1999-12-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 17.5%;
Best Local Similarity 72.9%;
Matches 610; Conservative (
```

185 266 245 323 305 443

503

```
; OKGAN15m: no....
US-09-906-618-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Williams, P. Mickey
APPLICANT: Williams, P. Mickey
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/906,618
CURRENT FILING DATE: 2001-07-16
PRIOR PILING DATE: 2000-02-22
RIOR APPLICATION NUMBER: US 60/143,048
PRIOR PILING DATE: 1999-07-07
PRIOR PILING DATE: 1999-07-07
PRIOR PILING DATE: 1999-07-26
PRIOR PILING DATE: 1999-07-26
PRIOR PILING DATE: 1999-07-28
PRIOR PILING DATE: 1999-09-08
PRIOR PILING DATE: 1999-09-05
                                                                                                                                                725
                                                                                                                  743
                                                                                                                                                                              GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                            ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAAATCCAACATAAGAAAATAT 858
                                                                                                                                                                                                              GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACAACTCAA 785
                                                                                                                                                                                                                                                                           859 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAGA 915
                                                                                                                                                                                                                                                                                                                                         846 TGCGCTGAACTTCAAAGGACTTCATAAGTATTTGTTACTCTGATACAATAAAATA 902
                                                                     TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCCACCATAAGGGACTCTTCAAA
                                                                                                                 CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT
                                                                                                                                             cccaaggcaaatriggaargargraaccigirirccrcaarrarrrrcggarrrigigaaar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 376, Application US/09906618
Patent No. 6828146
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gao, Wei-Qiang
Gerber, Hanspeter
Gerritsen, Mary E.
Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ferrara, Napoleone
Filvaroff, Ellen
Fong, Sherman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botsein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
                                                 624
                                                                                                                 684
                                                                                                                                               999
                                                                                                                                                                                                              726
                                                                                                                                                                                                                                                                           786
                                                                                                                                                                                                                                             799
                                                                                                                                                                              744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
                                                                          g
                                                                                                                                          g
                                                                                                                                                                                                    g
                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                         ઠે
                                                 ð
                                                                                                             ð
                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                    ద
```

```
365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTTGAACTGGAAACATTA 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        606 AGGGGGCCAACAACAACAACAACCAACCAACCAACAAGAGAACTCTTCAAA 665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     147 ATCCCACCACACAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  207 CGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACCAGATGTGTGTAACATATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             186 TGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATCACCAGATGTGTTGTGACATTTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       267 CAGCICTCAAA---TITCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           246 CATCTTTCAAACCTGTGATGAGAAAAGTTTCAGCTACCTGAGAATTTCACAGAGCTCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTGCTACAATTATGGATCAGGTTCAAGAATTGTTGTCCATTGAACTGGGAATATTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        384 TCAATCTAGTTGTTATTTTTTTTCTCTACGACCTTGACCTTGGTCATCAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         366 TCAATCCAGCTGCTACTTCTTTCTACTGACACCATTTCCTGGGCGTTAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 426 CTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAACTCACAGGAGGAGGAGGAAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       486 TTCCTACAAGAACCTAAAATGAGAGAGTTTTTTATTGGACTGTCAGACCAGGTTGTCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GGGTCAGTGGCAATGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GGGTCAGTGGCAATGGGTGGACGCCACACCTTTGACAAAGTCTCTGAGCTTCTGGGATGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                624 TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    87 AGAGAAGGAAAAGGAAGAAAAGGAAAAAAGGAAGAATGAATTCAACCAAATCGCCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             444 TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTGGACTGACAGACCAGGTGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gapa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indele
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 439.4; DB 4;
Pred. No. 6.9e-105;
0; Mismatches 216;
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-00-15
PRIOR PLING DATE: 1999-10-05
PRIOR PLING DATE: 1999-11-09
PRIOR PLING DATE: 1999-11-29
PRIOR PLING DATE: 1999-11-29
PRIOR PLING DATE: 1999-11-20
PRIOR PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR PILING DATE: 1999-12-02
PRIOR PLING DATE: 1999-12-02
PRIOR PLING DATE: 1999-12-02
PRIOR PLING DATE: 1999-12-06
PRIOR PLING DATE: 2000-01-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local Similarity 72.9%;
Matches 610; Conservative 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TYPE: DNA ORGANISM: Homo Sapien
```

443

503 485 563 545 623

Ę,

ò g ò ద δ 임

```
ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       593
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              301 TTTTATTGGACTGTCAGACCAGGTTGTCGAGGGTCAGTGGCAATGGGTGGACGGCACAC 242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            653
                                                                                                                                                                                                                                                                                                                                                                           301 Trrrarregacrerecadaceaegregaegregaegregaagegregaegeegeege 242
                                                                                                                                                                                                                                                                                                                                                                                                                        653
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 241 Trigacaaagicrcigagcrrciggargragggaggcccaacaacaracaraccrgga 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GGACTGTGCCACCATAAGGGACTCTTCAAACTCCAGGAAGAACTGGAATGATAATCCCTG 713
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITICIACAGIAIGCCIIGGAITITGIGAGAIGCCAGAAAIAAGICCICAGGACIAAGIGCA 773
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     241 Trrgacaaagrerergagerrerggargragggageceaacaacaraceracergga 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GGACTGTGCCACCATAAGGGACTCTTCAAACTCCAGGAAGAACTGGAATGATAATCCCTG 713
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TTATATTGGACTGACAGACCAGGTGGTGGGTCAGTGGCAATGGGAGGATGATACACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              594 ITTCACAGAGICCCIGACCTICIGGGAIGCTGGGGAGCCCAACAATAIAGTTTTGGTGGA
                                                                                                                                                                                                                                                                                                                                    TTATATTGGACTGACAGACCAGGTGGTGGAGGGTCAGTGGCAATGGGAGGATGATACACC
                                                                                                                                                                                                                                                                                                                                                                                                                           TTTCACAGAGTCCCTGACCTTCTGGGATGCTGGGGAGCCCCAACAATATAGTTTTGGTGGA
                                                                                                                                                                                                                                                                                           Gape
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 29, Application US/09620405B
Patent No. 6228054
GENERAL INFORMATION:
APPLICANT: Jiang, Yuqiu
APPLICANT: Dillon, Davin C.
APPLICANT: Willon, Davin C.
APPLICANT: Willon, Jangchun;
APPLICANT: Willon, Jangchun;
APPLICANT: William L.
APPLICANT: Harlocker, Susan L.
APPLICANT: Harlocker, William L.
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY AND TITLE OF INVENTION: COMPOSITIONS OF BREAST CANCER
FILE REFERENCE: 210121.470C8
CURRENT APPLICATION NUMBER: US/09/620,405B
                                                                                                                                                                                                                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ;
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 4; Length 301;
                                                                                                                                                                                                                                               Length 301;
                                                                                                                                                                                                                                                                                        IndelB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                                                                               DB 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 157.8; DB 4;
Pred. No. 2.2e-31;
0; Mismatches 52;
                                                                                                                                                                                                                                           Score 157.8; DB 4
Pred. No. 2.2e-31;
0; Mismatches 55
FILE REFERENCE: 210121.470C3
CURRENT APPLICATION NUMBER: US/09/389,681A
CURRENT FILING DATE: 1999-09-02
NUMBER OF SEQ ID NOS: 463
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 29
LENGTH: 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUMBER OF SEQ ID NOS: 495
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 29
LENGTH: 301
                                                                                                                                                                                                                                             6.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     6.3%;
                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                           ; TYPE: DNA
; ORGANISM: Homo sapien
US-09-389-681-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapien
                                                                                                                                                                                                                                             Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 12
US-09-620-405B-29/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        774 A 774
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-620-405B-29
                                                                                                                                                                                                                                                                                        Matches 189;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              189;
                                                                                                                                                                                                                                                                                                                                                                                                                           594
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            534
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM:
                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                        유
                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                             a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                               Sequence 29, Application US/09222575;
Patent No. 6387697;
GENERAL INFORMATION:
PAPLICANT: Vugiu, Jiang
APPLICANT: Mitcham, Jennifer L.
FILE REFERENCE: 21011.470
CURRENT FILING DATE: 1998-12-28
NUMBER OF SEQ ID NOS: 174
SEQ ID NOS: 174
SEQ ID NO 29
LENGTH: 301
TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      534 ITATATTGGACTGACAGACCAGGTGGTGGAGGGTCAGTGGCAATGGGAGGATGATACACC 593
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GGACTGTGCCACCATGAGAGACTCTTCAAACCCAAGGCAAAATTGGAATGATGATAGTAACCTG 122
  666 CCCAAGGCAAAATTGGAATGATGTAACCTGTTTCCTCAATTATTTTCGGATTTGTGAAAT 725
                                           744 GCCAGAAATAAGTCCTCAGGACTAAGTGCAA----GGAAATACAAGGGACATGGCTTAC 798
                                                                                      726 GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACAACTCAA 785
                                                                                                                                  799 ATGCATGAAGAACAAGAGTGAATGTAATAACAACCAAAATCCAACATAAGAAAATAT 858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 594 TITCACAGAGICCCIGACCIICIGGGAIGCIGGGAGCCCCAACAATAIAGIIITIGGIGGA 653
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GGACTGTGCCACCATAAGGGACTCTTCAAACTCCAGGAAGAACTGGAATGATAATCCCTG 713
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              714 TITICTACAGTATGCCTTGGATTTGTGAGATGCCAGAAATAAGTCCTCAGGACTAAGTGCA 773
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-389-681-29/c

Sequence 29, Application US/09389681A

Patent No. 651827;
GENERAL INFORMATION:

APPLICANT: Vuqui, Jiang

APPLICANT: Mitcham, Jannifer L.

APPLICANT: Mitcham, Jannifer L.

APPLICANT: Witcham, Jannifer L.

APPLICANT: Witcham, Jangchun

TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND

TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE
                                                                                                                                                                                                                      859 CTATCAGGCATCAGAAGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAGA 915
                                                                                                                                                                                                                                                               846 TGCGCTGAACTTCAAAGGACTTCATAAGTATTTGTTACTCTGATACAATAAAATA 902
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TTTCCTCAATTATTTTCGGATTTGTGAAATGGTAGGAATAAATCCTTTGAACAAAGGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 301;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 157.8; DB 3;
Pred. No. 2.2e-31;
0; Mismatches 52;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity 78.4 Matches 189; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM: Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   774 A 774
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A 61
                                                                                                                                                                                                                                                                                                                                  RESULT 10
US-09-222-575-29/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-09-222-575-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61
```

ò 셤 ò g ò g ò g ò g

```
LENGTH: 301
TYPE: DNA
ORGANISM: Homo sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM: Homo sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           al Similarity
189; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                774 A 774
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-604-287A-29/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61 À 61
                                                                                                                       US-09-433-826B-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-09-604-287A-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                                     요
                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   δ
                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                        유
                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
301 TTTTATTGGACTGTCAGACCAGGTTGTCGAGGGTCAGGCAATGGGTGGACGGCACACC 242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       594 TTTCACAGAGTCCCTGACCTTCTGGGATGCTGGGGAGCCCAACAATATAGTTTTGGTGGA 653
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  241 TTTGACAAAGTCTCTGAGCTTCTGGGATGTAGGGGAGCCCAACAACAAAGCTACCCTGGA 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GGACTGTGCCACCATAAGGGACTCTTCAAACTCCAGGAAGAACTGGAATGATAATCCCTG 713
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TITCTACAGTATGCCTTGGAITTGTGAGATGCCAGAAATAAGTCCTCAGGACTAAGTGCA 773
                                                      TTTCTACAGTATGCCTTGGGATTTGTGAGATGCCAGAAATAAGTCCTCAGGACTAAGTGCA 773
                                                                                     62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 29, Application US/09433826B
Patent No. 6579973
GENERAL INFORMATION:
APPLICANT: Jiang, Yuqui
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Mitcham, Jennifer L.
APPLICANT: Xu, Jiangdum, Jennifer L.
APPLICANT: Xu, Jiangdum, Jennifer L.
APPLICANT: Susan L.
TITLE OF INVENTION: COMPOSITIONS FOR THE TREATMENT AND
TITLE OF INVENTION: DIAGNOSIS OF BREAST CANCER AND METHODS FOR THEIR USE
FILE REFERENCE: 210121-470C4
CURRENT APPLICATION NUMBER: US/09/433,826B
                                                                                                                                                                                                                                                                                    APPLICANT: You'd, Jiang
APPLICANT: Totalu, Jiang
APPLICANT: Dillon, Davin C.
APPLICANT: Micham, Jennifer L.
APPLICATION NUMBER: US/09/339,338A
CURRENT APPLICATION NUMBER: US/09/339,338A
NUMBER OF SEQ ID NOS: 315
SOFTWARE: FastSEQ for Windows Version 3.0
                                                                         534 TTATATTGGACTGACAGGTGGTGGTGGGCTCAGTGGCAATGGGAGGATGATACACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 301;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match 6.3%; Score 157.8; DB 4; Length 3 Best Local Similarity 78.4%; Pred. No. 2.2e-31; Matches 189; Conservative 0; Mismatches 52; Indels
                                                                                                                                                                                                                                     Sequence 29, Application US/09339338A Patent No. 6573368
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TYPE: DNA
ORGANISM: Homo sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 14
US-09-433-826B-29/c
                                                                                                                     774 A 774
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          774 A 774
                                                                                                                                                      À 61
                                                                                                                                                                                                                         US-09-339-338-29/c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ; ORGANISM: HOT
US-09-339-338-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID NO 29
LENGTH: 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           714 '
                                                      714
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          181
                                                                                                            ठे
                                                                                                                                               a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                      ò
                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
```

```
ö
                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                              653
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       713
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 773
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   713
                                                                                                                                                                                                                                                                                                      593
                                                                                                                                                                                                                                                                                                                                                 242
                                                                                                                                                                                                                                                                                                                                                                                                                                         182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        653
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             62
                                                                                                                                                                                                                                                                                                                                  301 TTTTATTGGACTGTCAGACCAGGTTGTCGAGGGTCAGTGGCAATGGGTGGACGGCACACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   714 TTTCTACAGTATGCCTTGGATTTGTGAGATGCCAGAAATAAGTCCTCAGGACTAAGTGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            301 TITIATIGGACIGICAGACCAGGIIGICAGAGGICAGIGGCAAIGGGIGGACGCCACACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                241 Trigacaakgrerergagerrerggareragggggeeeeaacaacaraceraga
                                                                                                                                                                                                                                                                                                                                                                                              594 TITCACAGAGICCCIGACCTICIGGGAIGCIGGGGAGCCCAACAATAIAGITTIGGIGGA
                                                                                                                                                                                                                                                                                                                                                                                                                           654 GGACTGTGCCACCATAAGGGACTCTTCAAACTCCAGGAAGAACTGGAATGATAATCCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GGACTGTGCCCACCATAAGGGACTCTTCAAACTCCAGGAAGAACTGGAATGATAATCCCTG
                                                                                                                                                                                                                                                                                                      534 TTATATTGGACTGACAGACCAGGTGGTGGAGGGTCAGTGGCAATGGGAGGATGATACACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  534 TTATATTGGACTGACAGACCAGGTGGTGGAGGGTCAGTGGCAATGGGAGGATGATACACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            594 TTTCACAGAGTCCCTGACCTTCTGGGATGCTGGGGAGCCCAACAATATATTTTTGTGGA
                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gapa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 General inventation, Studiu

APPLICANT: Jiang, Yuqiu

APPLICANT: Dillon, Davin C.

APPLICANT: Miccham, Jennifer L.

APPLICANT: Mu, Jiangchun

APPLICANT: Harlocker, Susan L.

APPLICANT: Hepler, William T.

TITLE OF INVENTION: COMPOSITIONS OF BREAST CANCER

FILE REPRENENT: 210121.47067

CURRENT APPLICATION NUMBER: US/09/604,287A

CURRENT FILING DATE: 2000-06-22

NUMBER OF SEQ ID NOS: 489

SOTWARE: FastSEQ for Windows Version 3.0

SEQ ID NO 29

LENGTH: 301
                                                                                                                                                                                                                                                           ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB 4; Length 301;
                                                                                                                                                                                                           Length 301;
                                                                                                                                                                                                        Query Match 6.3%; Score 157.8; DB 4; Length Best Local Similarity 78.4%; Pred. No. 2.2e-31; Matches 189; Conservative 0; Mismatches 52; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  52;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6.3%; Score 157.8; DB 4 ilarity 78.4%; Pred. No. 2.2e-31; Conservative 0; Mismatches 52
CURRENT FILING DATE: 1999-11-03
NUMBER OF SEQ ID NOS: 474
SOFTWARE: FastSEQ for Windows Version 3.0
SEQ ID NO 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; Sequence 29, Application US/09604287A; Patent No. 6586572; GENERAL INFORMATION:
```

 Oy
 714 TITCTACAGTATGCTTGGAGTGCCAGAATAAGTCCTCAGGACTAAGTGCA
 773

 Db
 121 TITCCTCAATTATTTCGGATTTGTGAAATGGTAGGAATAAATCCTTTGAACAAAGGAAA
 62

 Qy
 774 A 774

 Db
 61 A 61

Search completed: June 9, 2005, 09:46:00 Job time: 433 secs

```
US-10-812-620-1
                                                                         9, 2005, 07:24:27 ; Search time 2931 Seconds (without alignments) 5323.451 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                     1 oggtotgttactcttgaact......aaataaagtaataaactatt 2517
                                                                                                                                                                                                                                                                                                                                                   12093534
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                      Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                 6046767 segs, 3099530249 residues
                                                                                                                                                                                                                                                                                                      Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                   - nucleic search, using sw model
                                                                                                                                                                           IDENTITY NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                  seq length: 0
seq length: 200000000
                                                                                                                     US-10-812-620-1
2517
                                                                            June
                                                                                                                                                                            Scoring table:
                                                                                                                                      Perfect score:
                                                                                                                                                                                                                                                                   0B
0B
                                                 OM nucleic
                                                                                                                                                    Sequence:
                                                                                                                                                                                                                 Searched:
                                                                                                                                                                                                                                                                                                                                                         Database
                                                                                                                                                                                                                                                                  Minimum |
Maximum |
                                                                            Run on:
                                                                                                                           Title:
```

Description	Sequence 1, Appli Sequence 21733, A Sequence 40, Appl Sequence 376, App Sequence 376, App Sequence 376, App Sequence 376, App
SUMMARIES	7 21 US-10-812-620-1 3 10 US-09-814-353-21733 8 9 US-09-965-529-40 8 10 US-09-969-680A-40 7 9 US-09-909-120-376 7 9 US-09-909-130-376 7 9 US-09-905-291A-376
DB	400000
% Query Match Length DB ID	22 22 20 20 20 20 20 20 20 20 20 20 20 2
	100.0 18.1 17.5 17.5 17.5 17.5
Score	456.2 456.2 441 441 439.4 439.4
Result No.	 - uuwanoc

ö

ö

DB 21; Length 2517; 0; Indels

100.0%; Score 2517; 100.0%; Pred. No. 0; ive 0; Mismatches

Query Match 100. Best Local Similarity 100. Matches 2517; Conservative

9 9 61 TTCCAGGGGCTCTTTCTAAACTGAGAAGAAAGGAAAAGGAAAAAGGAAAAAAGGA 120

1 CGGTCTGTTACTCTTGAACTTTTAAAAGAGGGCCAAGGATTCACCATTCAAGACTCACT 1 CGGTCTGTTACTCTTGAACTTTTAAAAAGAGGCCAAGGATTCACCATTCAAGACTCACT

셤 ò

ð

•	,		Č	•			
000	א ני	7.7	y (n c	75-505-805-8	210,	d i
J .	ם מ	٠,	0	n d	7-100-00-0	equence 376,	<u>ئ</u> د 2 د
2 -	90	٠,	0	, 5	5-110-00-00	Section 376	74
12	۱ o		0 0	2 0	09-903-640-3	equence 376.	App
11			66	2	09-908-093-3	equence 376,	App
14	6		66	2	09-906-742-3	equence 376	App
15	39		66	2	09-906-838-3	equence 376,	App
16	39	7.	66	2	09-907-613-3	equence 376,	App
17	39.	۲.	66	2	09-907-942-3	equence 376	App
18	6.	7.	99	10	09-904-859-3	equence 376,	App
19	39.	7.	99	2	09-909-204-3	equence 376,	App
20	9	ζ.	66	c	09-904-820-3	376,	App
21	39	٠.	66	2	09-904-786-3	equence 376,	App
22	σ,	۲.	66	2	09-906-646-3	ednence 376,	App
23	39		66	2	00-906-300-3	equence 376,	App
24	99	۲.	66	2	09-903-786-3	equence 376,	App
25		· .	20.0	2:	39-902-903-376	equence 376,	App
9 7 9	9.0	٠.	20.0	2 :	39-903-749A-	edneuce 376	App
2.7	9,6	٠,	20.0	2:	09-904-119-3	equence 376,	App
20.00	٠. د	· .	9 0	2 :	39-904-956-3	equence 376	App
V 6	, ,	٠,	200	2 :	2-95/-205-60	edneuce 376	ddy.
٠ د د		٠,	y (3 :	2 - 4 A - 1 - 1 A 4 - 4	equence 376	App
7 6	o	٠,	y 0	7 5	2-242-202-20	equence 376	App
2 6	, n c	٠,	y 0	7 :	2-204-404-40	drence 310	dd t
25.		٠,	y (3 :	2-52-105-50	equence 376	App
3.4		٠.	20.0	2 .	29-205-60	equence 376	App
2,5		٠,	20.0	3 :	29-903-520-3	equence 376	App
36	o n 0	٠.	9 0	2 :	09-905-056-3	6 376	App
7.5		٠.	20.0	2 :	29-904-08-3 66-66-66-66-66-66-68-68-68-68-68-68-68-6	equence 376	App
8 6		٠.	20.0	3 :	29-904-553-3	equence 376	App
65		٠.	20.0	2 :	5-T85-506-60	equence 376	App
o •	n c	٠,	20 0	3 6	2-22-4-402-2	equence 3/6	App
- C	, n c	٠,	<i>y</i> c	7 .	2 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	ednesice 376	2
7 6	n d	٠,	n 0	3 6	2903-000-00	equence 376	4
7.7	7 6	٠,	n 0	3 5	19-90-90	eduence 376	4
1. 4. 1. 10	439.4	17.5	997	20	US-09-903-078 US-09-902-759-376	Sequence 376.	App
?)	:	1				4
					OHNOPUNCTIA		
					ALIGNAENIS		
RESULT 1	ć						
218-01-c0	7-070-	1,00	/ 011 40++	60	0000		
; Sequence 1, Application OS/10812820 : Publication No. US20050019860A1	tion N	PPIICA O. US2	00500198	60A1	0707		
GENERAL	INFOR	MATION					
, APPLIC	ANT: J	apan S	cience a	nd 1	ogy Corporation		
, TITLE	OF INV	ENTION	i: A nove	r D	ecti		
, FILE R	TEFEREN	CE: JA	.904071 N MIMBED	110	c		
CURREN	T FILL	NG DAT	E: 2004	9	2		
PRIOR	APPLIC	ATION	NUMBER:	us/1	0/110,945		
PRIOR	FILING	DATE:	2002-04	-14			
, PRIOR	APPLIC	ATION	NUMBER:	19	1-293724		
, PRIOR	FILING	DATE:	1999-10	-15			
NOMBER	OF SE	2 2 2	OS: 7				
ביים ו ביים ו	1 2 5						
TYPE	١,						
ORGANISM:		Mouse					
		1					

g ઠે Š

```
971 AAAGATCTCTTTTTAGACTGTACAGATCAATTCTCTAACAAATGCAACAAGAAGAAGGG 1030
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GAAACTTA-TTCCTGCTCAGAATACCGGTGTGGCCTTTCTGGCTACAGGCCTCCACTGCA 1370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1291 TCTCCATATGGAAAGGCCGGTCAAACTTCGTAACAGATTGTGATCTAGTCCACTC 1350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1252 ccaagcarararcgrererracreceergrarardakgraagcreereragrear 1311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1192 ititiciascricitascaasicreticricircrissriricaricaracerritaricrisc
652 AGGGGAGCCCAACAACATAGCTACCTGGAGGACTGTGCCACCATGAGAGACTCTTCAAA 711
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                712 cccaaggcaaaarrgaargargraaccrgrrrccrcaarrarrrcggarrrgrgaaar 771
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     799 ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAATCCAACACATAAGAAATAT 858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             919 GTICCCATTGCTAAAAGTCCACAGCATTGTCTGATGG-----TCTTGCCATAACCTG 970
                                                                                              CTGCTACAGTGAGGCATCAGGTTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      592 GGGTCAGTGGCAATGGGTGGTGGTGGACGCCACACCTTTGACAAAAGTCTCTGAGGTCTCTGGGATGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        952 AGİTTTAAATGİTATAAİTCATGATTĞGCİĞAAĞTGCATTITCİCİTCIAĞĞİTAĞICT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGTTGTTGTCCATTGAACTGGGAATATTT
                                                                                                                                                                                                                         TCAATCTAGTTGTTATTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA
                                                                                                                                                                                                                                                                   TCAATCCAGCTGCTACTTCTTTTCTACTGACACCATTTCCTGGGCGTTAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                               CTGCTCAGGCCATGGGGGGCTCACCTGGTGGTTATCAACTCACAGGAGGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTTGGACTGACAGACCAGGTGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    rrccracaagaaccraaaargagagrrrrrrrrrrggacrgrcagaccaggrrgrca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GGGTCAGTGGCAATGGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Argiteranagangangangangangangangge argiter dengangang ang argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argiter argi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     859 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAGACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1031 ATTCTCCTTTTCACATCTGTCTTGCACATCTGTCTTGCTCATGAGAATTGATATGAAGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1072 TTTAGTGTTCGTATGAAAGTACAGGGACACGGAGCCAAGACAGAGTCTAGCAAAGAAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1132 GATTTIGGAAGGIGCCTICCAAAATCTCCTGAATCCGGGCTCTGTAGCAGGTCCTCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ------ACAGTGAGGAAGATGCATCTTTGAGTCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1243 TAAACTTACCTGCCGCTTGGGAGAATGGCATGGCCTT-----CAGCAAGGACA
                                                                                                                                                                                                                                                                                                                                              TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1091 AGAGGTAGAAAGCAGATGTCTGTATAAAGAGACTTTAATGGTCACTATGTCATCTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITCIACATCCTTGGCTCTAGCTTATCTATCAGTACATAGATCACTTCTGTGTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCA-----
                                                                                                                                                                                                                                                                                                                                                 444
                                                                                                                                                                                                                   384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    532
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1312
                                   292
                                                                                              324
                                                                                                                                                           352
                                                                                                                                                                                                                                                                                412
                                                                                                                                                                                                                                                                                                                                                                                                            472
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               772
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       832
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1211
                                                                                                                                                                                                                                                                   a
                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                8 8
                                                                                                                                        8 8
                                                                                                                                                                                                                                                                                                                                           ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ð
                                   2340
                                                                                              2340
                                                                                                                                                           2400
                                                                                                                                                                                         CTATITIAGAAATIGGACAGGIGGGAAICAICCAATIGAAACICGAAAAAIGIAGIGIII 2460
                                                                                                                                                                                                                                                                                                                 146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATCCCACCACCACAGAGGATGCTTCAAAACTCCCAAGTGCTCTCCTGGACGATAGC 206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CGGGGCCTCCATCTTTTCTCAGTGGCTGTTTCATCACCAGATGTGTCGTACATATCG 266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                267 CAGCTCTCAAA---TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC 323
                                                                                                                                                                                                                                                                                                                                                                                                            TGTACATTAGGTTACAGAAAAACAACTTTAGCCACAAAAATAAAGTAATAAACTATT 2517
                                                                                                                                                                                                                                                                                                                                                                                                                                            TGTACATTAGGTTACAGAAAAACAACTTTAGCCACAAAAATAAAGTAATAAACTATT 2517
                                                             AAACATGACCCAAAACTATCTTGGGCCGGGAAAATTTTAATTTTATCTTAACATAAATTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AACACAATGCACAGAGAGAGGATGCTTC---TCTTCCCAAATGTTCTTATGGACTGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AGAGAAGGAAAAAGGAAGGAAGGAAAAAAGGAAGAATGAATTCAACCAAATCGCCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 21733, Application US/09814353
| Sequence 21733, Application US/09814353
| Publication No. US20030165831A1
| GENERAL INPOMATION:
| APPLICANT: Lee, John
| APPLICANT: Lillie, James
| TITLE OF INVENTION: NOWEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
| TITLE OF INVENTION: NOWEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
| TITLE OF INVENTION: THERAPY OF OVARIAN CANCER
| TITLE OF INVENTION: THERAPY OF OVARIAN CANCER
| FILE REFERENCE: MR.-0068
| CURRENT PILIONG DATE: 2001-03-21
| PRIOR APPLICATION NUMBER: US 60/291,031
| PRIOR APPLICATION NUMBER: US 60/207,124
| PRIOR APPLICATION NUMBER: US 60/216,820
| PRIOR FILING DATE: 2000-06-15
| PRIOR FILING DATE: 2000-06-15
| PRIOR PRILING DATE: 2000-07-07
| PRIOR PRILING DATE: 2000-07-07
| PRIOR PRILING DATE: 2000-07-07
| PRIOR PRILING DATE: 2000-07-07
| PRIOR PRILING DATE: 2000-07-07
| PRIOR PLILING DATE: 2000-07-07
| PRIOR PLILING DATE: 2000-07-07
| PRIOR PLILING DATE: 2000-07-07
| PRIOR PLILING DATE: 2000-07-07
| PRIOR PLILING DATE: 2000-07-07
| PRIOR PLILING DATE: 2000-07-07
| PRIOR PLILING DATE: 2000-07-07
| PRIOR PLILING DATE: 2000-07-07
| PRIOR PLILING DATE: 2000-07-07
| PRIOR PLILING DATE: 2000-07-07
| PRIOR PLILING DATE: 2000-07-07
| PRIOR PLILING DATE: 2000-07-07
| PRIOR PLILING DATE: 2000-07-07
| PRIOR PLILING DATE: 2000-07-07
| PRIOR PLILING DATE: 2000-07-07
| PRIOR PLILING DATE: 2000-07-07
| PRIOR PLILING DATE: 2000-07-07
| PRIOR PLILING DATE: 2000-07-07
| PRIOR PLILING DATE: 2000-07-07
| PRIOR PLILING DATE: 2000-07-07
| PRIOR PLILING DATE: 2000-07-07
| PRIOR PLILING DATE: 2000-07-07
| PRIOR PLILING DATE: 2000-07-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 2143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 18.1%; Score 456.2; DB 10; Length Best Local Similarity 62.3%; Pred. No. 3.2e-99; Matches 915; Conservative 0; Mismatches 488; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NAME/KEY: misc feature
LOCATION: 1, 2143
OTHER INFORMATION: n = A,T,C or G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-814-353-21733
                                                                                                                                                                                                                   2341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     207
                                                                                       2281
                                                                                                                                                                                                                                                                                                                                              2401
                                                                                                                                                                                                                                                                                                                                                                                                         2461
                                                                                                                                                     2341
                                                                                                                                                                                                                                                                                2401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2461
                                                                                                                                                                                                                                                                                                                    QQ
                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               중 음
```

743

891 918 951 1242

셤 ठे

ò

ઠે

1131

661 683

```
GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC 623
                                                                                                                                                                                                                                                                                                            AGGGAGCCCAACAACATAGCTACCCTGGAGGACTGTGCCCATGAGAGACTCTTCAAA 721
                                                                                                                                                                                                                                                                                                                                                                                           cccaaggcaaaarriggaargaagcrgrrrrccrcaarrarrrcggarrrgrgaaar 781
                                                                                                                                                                                                                                                                                                                                                                                                                                      GCCAGAAATAAGTCCTCAGGACTAAGTGCAA----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               782 GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACAACTCAA 841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAAATCCAACATAAGAAAATAT 858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAGA 915
                                                                                                                                                                                                                                                                       TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       482 CTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAACTCACAGGAGGAGGAGGAATTCCT
                                                                                                                              CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT
                       TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGAAGAGCAGGAATTCCTT
                                                                                                      TITICGCACAAAAICTAAAAGGAAAGAGITITIATATIGGACTGACAGGCCAGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 968;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NAME/KEY: misc_feature
OTHER INFORMATION: Incyte ID No. US20030124649A1 1521513CB1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-09-969-680A-40
Sequence 40, Application US/09969680A
Publication NO. US20030124649A1
Sequence 40, Application US/09969680A
Publication NO. US20030124649A1
SENERAL INFORMATION:
APPLICANT: LAK, Preeti, YUE, Henry
APPLICANT: BURFORD, Neil; AZIMZAL, Yalda
APPLICANT: BAUGHN, Mariah R.: LU, Dyung Aina M.
APPLICANT: BAUGHN, Mariah R.: LU, Dyung Aina M.
APPLICANT: BAUGHN, Mariah R.: LU, Dyung Aina M.
APPLICANT: PATTERSON, Chandra
APPLICANT: PATTERSON, Chandra
APPLICANT: PATTERSON, Chandra
APPLICANT: PATTERSON, Chandra
CURRENT APPLICATION NUMBER: US/09/969,680A
CURRENT APPLICATION NUMBER: 06/149,641
PRIOR APPLICATION NUMBER: 60/144,641
PRIOR FILING DATE: 1999-08-17
PRIOR FILING DATE: 1999-11-09
NUMBER OF SEQ ID NOS: 74
SSOTTWARE PERL PROGram
SSOTTWARE PERL PROGram
SSOTTWARE PERL PROGram
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     17.5%; Score 441; DB 10;
73.0%; Pred. No. 9.7e-96;
iive 0; Mismatches 215;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity 73.0
Matches 611; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-09-969-680A-40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         859
                                                                                                                                               542
                                                                                                                                                                                      564
                                                                                                                                                                                                                                                                       624
                                                                                                                                                                                                                                                                                                              662
                                                                                                                                                                                                                                                                                                                                                       684
                                                                                                                                                                                                                                                                                                                                                                                               722
                                                                                                                                                                                                                                                                                                                                                                                                                                        744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                842
                       444
                                                                                                      504
                                                                                                                                                                                                                                 602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                     음
                                                                                                      ò
                                                                                                                                       ద
                                                                                                                                                                             8
                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                       ద
                                                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                          1351 -TICCIGGAGCCCCATITICICIGIGIICTCTTCTATAAAC----IGGAITICACCIGIA 1405
                                                                                 1431 ATCCCTGGGGCTTCCTTTGCTCTGGCTTATTTTCAATTGACTGAATGGATCTCACAGAT 1490
                                                                                                                          1406 CTTGTATCTACTGCGCAAGTAGAACCTGCTCAGTAGGTTCAAAGTGAAATTATTTAAAAA 1465
                                                                                                                                                                1491 TTTGTATCTATTGCTCAGCTAGGACCCGAGTCCAATAGTCAATTT-ATTCTAAGCGAACA 1549
CCTTCTTAGGGAAGGGCATGCCAGCCATCAGCTCCAAACAGGCTGTAACCAAGTCCACCC 1430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    185 AACACAATGCACAGAGAGAGGATGCTTC---TCTTCCAAATGTTCTTATGGACTGTTGC 241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CATCTTTCAAACCTGTGATGAGAAAAGTTTCAGGTACCTGAGAATTTCACAGAGCTCTC 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    147 ATCCCACCACACAGAGAAGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC 206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     242 TGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATCACCAGATGTGTTGTGACATTTCG 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              267 CAGCICICAAA---TITCCGGGCAGAACTIACAGCCACATAGAAATATAAGGAGCTTTC 323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    crectacaarraregarcagerreagarcagaarrerrerecarreaacreegaararr 421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TCAATCTAGTTGTTATTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA 443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      87 AGAGAAGGAAAAAGGAAGAAAAGGAAAAAAGGAAGAATGAATTCAACCAAATCGCCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CURRENT APPLICATION UNDBER: US/09/965,529
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: 60/149,641; 60/164,203; PCT/US00/22315
PRIOR APPLICATION NUMBER: 60/149,641; 60/164,203; PCT/US00/22315
PRIOR FILING DATE: 1999-08-17; 1999-11-09; 2000-08-14
NUMBER OF SEQ ID NOS: 74
SEQ ID NO 40
LENGTH: 968
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 441; DB 9; Length 968;
Pred. No. 9.7e-96;
0; Mismatches 215; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | NAME/KEY: misc_feature
| OTHER INFORMATION: Incyte ID No. US20020182671A1 1521513CB1
| US-09-965-529-40
                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT: LAL, Preeti
APPLICANT: YUE, Henry
APPLICANT: TANG, Y. Tom
APPLICANT: TANG, Y. Tom
APPLICANT: BANDMAN, Olga
APPLICANT: BANDMAN, Olga
APPLICANT: AZIMZAI, Yalda
APPLICANT: ALI, Dyung Aina M.
APPLICANT: PATTERSON, Chandra
TITLE OF INVENTION: MEMBRANE ASSOCIATED PROTEINS
FILE REFERENCE: PF-0731 USA
                                                                                                                                                                                                                                 1466 TICATGTICACATTITICIGICICAGGAC 1494
                                                                                                                                                                                                                                                                                                                                                       Sequence 40, Application US/09965529 Publication No. US20020182671A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ch
11 Similarity 73.0%;
611; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TYPE: DNA ORGANISM: Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                             GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                      US-09-965-529-40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local S
Matches 611
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               384 '
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                      ò
                                                                             임
                                                                                                                        ò
                                                                                                                                                        원
                                                                                                                                                                                                         δ
                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
```

```
APPLICANT: Milatu, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Neument, Ne
      Hillan, Kenneth, J.
                                                                                        266
      206
                                                                                                                        242 IGGGATCCCATCCTATTTCTCAGTGCCTGTTTCATCACCAGATGTGTTTGTGACATTTCG 301
                                                                                                                                                                             323
                                                                                                                                                                                                                                                                                                                                                 443
                                                                                                                                                                                                                                                                                                                                                                                                                                      503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 743
                                                                                                                                                                                                                                                                                                       421
                                                                                                                                                                                                                                                                                                                                                                                            481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC 623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATGCATGAAGAACAAGAGTGAATGTAATAACAACCAAAAATCCAACATAAGAAAATAT 858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           782 GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAAGGCACAACTCAA 841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  902 IGCGCIGAACTICAAAGGACTICATAAGTATITGTIACTCTGATATAAAAATA 958
ATCCCACCACACAGAGAGAGGATGCTTCAAAACTCCCAAGTGCTCTCCTGGACGATAGC
                                                                                                                                                                                                                CATCITICAAACCTGTGATGAAAAAGTTTCAGCTACCTGAGAATTTCACAGAGCTCTC
                                                                                                                                                                                                                                                                                 CTGCTCAGCCATGGGGGGCTCACCTGGTGGTTATCAACTCACAGGAGGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT
                        CAGCTCTCAAA - - - TITCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC
                                                                                                                                                                                                                                                           CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA
                                                                                                                                                                                                                                                                                                                                               TCAATCTAGTIGTTATTTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                 TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTTGGACTGACAGACCAGGTGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGGGGAGCCCAACAATATAGTTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cccaaddcaaatricaaatgaagcriciririccrcaarrarrrccgarrigaaar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               859 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      199
                                            185
                                                                                    207
                                                                                                                                                                        267
                                                                                                                                                                                                                302
                                                                                                                                                                                                                                                           324
                                                                                                                                                                                                                                                                                                     362
                                                                                                                                                                                                                                                                                                                                               384
                                                                                                                                                                                                                                                                                                                                                                                                                                 444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       722
                                                                                                                                                                                                                                                                                                                                                                                       422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   744
                                                                                                                   qq
                                                                                                                                                                      ð
                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     q
                                                                                  ò
                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
```

```
206
                                                                                                                                             266
                                                                                                                                                                     245
                                                                CAGCTCTCAAA---TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC 323
                                                                                                                                                          186 TGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATCACCAGATGTGTTGTGACATTTCG
                                                                                               147 ATCCCACCACACAGAGAGAGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC
                                                                                                                                             207 CGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACCAGATGTGTGTAACATATCG
                                              11;
  Length 997;
                        Indela
Score 439.4; DB 9;
Pred. No. 2.4e-95;
0; Mismatches 216;
 17.5%;
                       Matches 610; Conservative
             Similarity
                                                                       69
                                                                                                                                                                                          267
  Query Match
Best Local
                                                                                                                셤
                                                                 원
                                                                                            ò
                                                                                                                                           ò
                                                                                                                                                                g
                                                                                                                                                                                       ò
                                                ઠ
```

; ORGANISM: Homo Sapien US-09-909-320-376

Sequence 376, Application US/09909320 Patent No. US20020132240A1 GENERAL INFORMATION:

APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botsein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.

Goddard, A. Godowski, Paul J. Grimaldi, Christopher J. Gurney, Austin L.

Gerber, Hanspeter Gerritsen, Mary E.

Wei-Qiang

APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:

Ferrara, Napoleone Filvaroff, Ellen Fong, Sherman us-10-812-620-1.rnpb

```
ATCCCACCACACAGAGAGGATGCTTCAAAACTCCCAAGTGCTCTCCTGGACGATAGC 206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CATCTITICAAACCIGIGAIGAAAAAGITITCAGCIACCIGAGAATTICACAGAGCICTC 305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       crecracaarrarecarcaegricaercaacaarricriercearreaacreegaararr 365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | TCAATCTAGTTGTTATTTTTTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA 443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACCAGATGTGTCTCGTAACATATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGGGATCCCCATCCTATTTCTCAGGCCTGTTTCATCACCACATGTGTGACATTTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAGCTCTCAAA----TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Transmembrane Polypeptides and Nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 439.4; DB 9; Length
Pred. No. 2.4e-95;
0; Mismatches 216; Indels
                      TITLE OF INVENTION: Secreted and Transmembrane P TITLE OF INVENTION: Acids Encoding the Same TITLE OF INVENTION: Acids Encoding the Same FILE REFERENCE: 10466-11.
FILE REFERENCE: 10466-11.
CURRENT APPLICATION NUMBER: US/09/99,088B CURRENT FILING DATE: 2001-07-18
PRIOR APPLICATION NUMBER: DCT/USO0/04414
PRIOR FILING DATE: 1999-07-07
PRIOR FILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-26
PRIOR PLING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR PLING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR PLING DATE: 1999-09-13
PRIOR FILING DATE: 1999-09-13
PRIOR FILING DATE: 1999-09-15
PRIOR PLING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR PLING DATE: 1999-10-05
PRIOR PLING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-29
PRIOR PLING DATE: 1999-11-20
PRIOR PLING DATE: 1999-11-20
PRIOR PLING DATE: 1999-11-20
PRIOR PLING DATE: 1999-12-02
PRIOR PLING DATE: 1999-12-02
PRIOR PLING DATE: 1999-12-02
PRIOR PLING DATE: 1999-12-02
PRIOR PLING DATE: 1999-12-02
PRIOR PLING DATE: 1999-12-06
PRIOR PLING DATE: 1999-12-02
PRIOR PLING DATE: 1999-12-02
PRIOR PLING DATE: 1999-12-06
PRIOR PRILING DATE: 1999-12-07
PRIOR PLING DATE: 1999-12-07
PRIOR PLING DATE: 1999-12-07
PRIOR PLING DATE: 1999-12-07
PRIOR PLING DATE: 1999-12-07
PRIOR PLING DATE: 1999-12-07
PRIOR PLING DATE: 1999-12-07
PRIOR PLING DATE: 1999-12-07
PRIOR PLING DATE: 1999-12-07
PRIOR PRIOR PLING DATE: 1999-12-07
PRIOR PLING DATE: 1999-12-07
PRIOR PRIOR PLING DATE: 1999-12-07
PRIOR PLING DATE: 1999-12-07
PRIOR PRIOR PLING DATE: 1999-12-07
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17.5%;
72.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches 610; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TYPE: DNA
CORGANISM: Homo Sapien
US-09-909-088B-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ۶. a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                           443
                                                                                                                                                                                                                                                                                                                                                                                                             485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      306 ciectacaarrargearcaggircagrcaagaarrerigrecearreaacregeaararr 365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  624 TGGGGAGCCCAACAATAIAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA 683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT 743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAAGGCACAACTCAA 785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAATTCCAACATAAGAAAATAT 858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   859 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAGA 915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                486 Trccracaagaaaccraaaargagagacrirrrrrrrrrgacigacragaccaggraficaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        846 TGCGCTGAACTTCAAAGGACTTCATAAGTATTTGTTACTCTGATACAAATAAAATA 902
                                                                                                                                                                                                                     TCAATCTAGTTGTTATTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTTAAAGAA
                                                                                                                                                                                                                                                                                 366 rcaarccagcracracracracracracracacaccararcragaccarraagaa
                                                                                                                                                                                                                                                                                                                                              TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                          426 crácticascicarisses de crestinario de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de cont
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTGGACTGACAGACCAGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 376, Application US/09909088B
Patent No. US20020146709A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ROY, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
Williams, P. Mickey
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Fong, Sherman
Gao, Wei-Qiang
Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gurney, Austin L.
Hillan, Kenneth, J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -09-909-088B-376
                                                                                                                                                                                                                                                                                                                                                 444
                                                                                               324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            564
                                                                                                                                                                                                                        384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ద
                                                                                               ઠે
                                                                                                                                                  셤
                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
```

266

Gaps

```
셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .8∙
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                        623
                                                                                                                                                                                                          605
                                                                                                                                                                                                                                          624 TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA 683
                                                                                                                                                                                                                                                                         606 AGGGGAGCCCAACAAACATAGCTACCCTGGAGGACTGTGCCACCATGAGAGACTCTTCAAA 665
                                                                                                                                                                                                                                                                                                                                             cccaaccaaaarrccaarcaaccrcrrrrccrcaararrrrcccaarrrrrcraaaar 725
                                                                                                                                                                                                                                                                                                                                                                                GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                                                                                                                                                                                726 GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAAGGCACAACTCAA 785
                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAAATCCAACATAAGAAAATAT 858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TCAATCCAGCTGCTACTTCTTCTACTGACACCATTTCCTGGGCGTTAAGTTTAAAGAA 425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       859 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAGA 915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       946 TGCGCTGAACTTCAAAGGACTTCATAAGTATTTGTTACTCTGATACAAATAAAATA 902
                                                                                                                        GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                                                                                                                                               426 CTGCTCAGCCATGGGGGGCTCACCTGGTGGTTATCAACTCACAGGAGGAGCAGGAATTCCT
                                                                                                   TTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTGGACTGACAGACCAGGTGGTGGA
                                                                                                                                                                                                                                                                                                             CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTTGTGAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic IITLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/905,291A
CURRENT FILING DATE: 2001-07-12
PRIOR APPLICATION NUMBER: PCT/US00/04414
PRIOR FILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/143,048
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 376, Application US/09905291A Patent No. US20020160374A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gurney, Austin L.
Hillan, Kenneth, J.
Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Williams, P. Mickey Wood, William, I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Fong, Sherman
Gao, Wei-Qiang
Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botsein, David
APPLICANT: Besnoyers, Luc
APPLICANT: Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          -09-905-291A-376
                                                                                                     504
                                                                                                                                                                                                                                                                                                                                             999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                        564
                                                                                                                                                                                                                                                                                                             684
                                                                                                                                                                                                                                                                                                                                                                                744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
                                                                                                   ò
                                                                                                                                 a
                                                                                                                                                                      ð
                                                                                                                                                                                               g
                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                  임
                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                              ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ծ
```

```
146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CAGCTCTCAAA---TITCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC 323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 324 CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ricciacaagaaacciaaaargagagagiriririarirgaacrercagaccaggirgicga 545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         186 TGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATCACCACATGTGTTGTGACATTTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       147 ATCCCACCACACAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          207 CGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACCAGATGTGTCGTAACATATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGTTGTCCATTGAACTGGGAATATTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                rcaarccascracricrirricracreacaccarricrescerescerivaasaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      504 TITICGCACAAAATCTAAAAGGAAAGAGTTTTATATTGGACTGACAGACCAGGTGGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     384 TCAATCTAGTTGTTATTTTTTTTCTCACGACCTTGACCTTGGTCATCAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  444 ITGCTCAGACATGGGGGCTCACCTGGTGATATCGACACACAGGAAGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              426 criecrica gecarica de contra contra contra contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de contra de
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indele
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 439.4; DB 9;
Pred. No. 2.4e-95;
0; Mismatches 216;
PRIOR FILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-26
PRIOR PLING DATE: 1999-07-28
PRIOR PLING DATE: 1999-07-28
PRIOR PLING DATE: 1999-09-08
PRIOR FILING DATE: 1999-09-08
PRIOR FILING DATE: 1999-09-08
PRIOR FILING DATE: 1999-09-13
PRIOR FILING DATE: 1999-09-13
PRIOR FILING DATE: 1999-09-15
PRIOR PLING DATE: 1999-09-15
PRIOR PLING DATE: 1999-09-15
PRIOR PLING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-10-05
PRIOR FILING DATE: 1999-11-20
PRIOR FILING DATE: 1999-11-20
PRIOR FILING DATE: 1999-11-20
PRIOR FILING DATE: 1999-11-20
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-03
PRIOR FILING DATE: 1999-12-03
PRIOR FILING DATE: 1999-12-03
PRIOR FILING DATE: 1999-12-03
PRIOR FILING DATE: 1999-12-03
PRIOR FILING DATE: 1999-12-03
PRIOR FILING DATE: 1999-12-03
PRIOR FILING DATE: 1999-12-03
PRIOR FILING DATE: 1999-12-03
PRIOR FILING DATE: 1999-12-03
PRIOR FILING DATE: 1999-12-03
PRIOR FILING DATE: 1999-12-03
PRIOR FILING DATE: 1999-12-03
PRIOR FILING DATE: 1999-12-03
PRIOR FILING DATE: 1999-12-03
PRIOR FILING DATE: 1999-12-03
PRIOR FILING DATE: 1999-12-03
PRIOR FILING DATE: 1999-12-03
PRIOR FILING DATE: 1999-12-03
PRIOR FILING DATE: 1999-12-03
PRIOR FILING DATE: 1999-12-03
PRIOR FILING DATE: 1999-12-03
PRIOR FILING DATE: 1999-12-03
PRIOR FILING DATE: 1999-12-03
PRIOR FILING DATE: 1999-12-03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     17.5%;
72.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches 610; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TYPE: DNA
ORGANISM: Homo Sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-905-291A-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               246 (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        486
```

```
ATCCCACCACACAGAGAAGGATGCTTCAAAAACTCCCAAGTGCTCTCTGGACGATAGC 206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATCACCAGATGTGTTGTGACATTTCG 245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CATCITICAAACCIGIGAIGAAAAAGITITCAGCIACCIGAGAATITCACAGAGCICIC 305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGTTGTCCATTGAACTGGGAATATTT 365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TCAATCCAGCTGCTACTTCTTTTCTACTGACACCATTTCCTGGGCGTTAAGTTTAAAGAA 425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC 623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA 683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAACTCACAGGAGGAGCAGCAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTTGGACTGACAGACCAGGTGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GGGTCAGTGGCAATGGGAGGACGCACCTTTGACAAGTCTCTGAGCTTCTGGGATGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            69 AGAGAGAGAGAAAAAAAACCAAAGAGAGAGAAAAAAAATGAATTCATCTAAATCATCTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CGGGGCCTCCATCCTCTCTCAGTGGCTGTTTCATCACCAGATGTGTCGTAACATATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CAGCTCTCAAA---TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAAGGAGCTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCAATCTAGTTGTTATTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 997,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0; Mismatches 216;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DB 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 439.4; DB 9
Pred. No. 2.4e-95;
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR PLING DATE: 1999-10-05
PRIOR PLING DATE: 1999-10-05
PRIOR PLING DATE: 1999-11-29
PRIOR PLING DATE: 1999-11-29
PRIOR PLING DATE: 1999-11-30
PRIOR FILING DATE: 1999-11-30
PRIOR FILING DATE: 1999-11-30
PRIOR FILING DATE: 1999-11-30
PRIOR PLING DATE: 1999-12-02
PRIOR PLING DATE: 1999-12-02
PRIOR PLING DATE: 1999-12-02
PRIOR PLING DATE: 1999-12-03
PRIOR PLING DATE: 1999-12-16
PRIOR PLING DATE: 1999-12-16
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-30
PRIOR PLING DATE: 1999-12-30
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
SEQ ID NO 376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             17.5%;
72.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches 610; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-902-853-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Tumas, Daniel
APPLICANT: Tumas, Daniel
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Williams, P. Mickey
APPLICANT: Williams, P. Mickey
APPLICANT: Williams, P. Mickey
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
TITLE OF INVENTION Acids Encoding the Same
TITLE OF INVENTION NUMBER: US/09/665,350
PRIOR APPLICATION NUMBER: US/09/665,350
PRIOR PLING DATE: 2000-09-18
PRIOR PLING DATE: 1999-07-07
PRIOR FILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-28
PRIOR FILING DATE: 1999-07-28
PRIOR PLING DATE: 1999-07-28
PRIOR PLING DATE: 1999-07-28
PRIOR PLING DATE: 1999-07-28
PRIOR PLING DATE: 1999-07-28
PRIOR PLING DATE: 1999-07-28
PRIOR PLING DATE: 1999-07-28
PRIOR PLING DATE: 1999-07-28
PRIOR PLING DATE: 1999-07-38
PRIOR PLING DATE: 1999-07-38
PRIOR PLING DATE: 1999-09-13
                                 623
                                                                          605
                                                                                                                     683
                                                                                                                                                                                                       CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT 743
                                                                                                                                                                                                                                                 CCCAAGGCAAAATTGGAATGAAGCTGTTTCCTCAATTATTTTCGGATTTGTGAAAT 725
                                                                                                                                                                                                                                                                                            GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                                                                                                       726 GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACAACTCAA 785
                                                                                                                                                                                                                                                                                                                                                                                  ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAATTCCAACATAAGAAAATAT 858
                                                                                                                                                                                                                                                                                                                                                                                                                           859 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAGA 915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               346 IGCGCTGAACTTCAAAGGACTTCATAAGTATTTGTTACTCTGATACAATAAAATA 902
                                                                                                                                                606 AGGGAGCCCAACAACAACAACCTTGAGAGGACTGTGCCACCATGAGAGACTCTTCAAA
                                 GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                 546 GGGTCAGTGGCAATGGGTGGCACGCACCTTTGACAAAGTCTCTGAGCTTCTGGGATGT
                                                                                                                   624 TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 376, Application US/09902853
Publication No. US20020192659A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hillan, Kenneth, J.
Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pan, James
Paoni, Nicholas F.
Roy, Margaret Ann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Besnoyers, Luc
APPLICANT: Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Wei-Qiang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sherman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Fong,
                                                                                                                                                                                                       684
                                                                                                                                                                                                                                                                                               744
                                                                                                                                                                                                                                                                                                                                                                                  799
                                 564
                                                                                                                                                                                                                                                    999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT
                                                                   ద
                                                                                                                 ò
                                                                                                                                                  g
                                                                                                                                                                                         ò
                                                                                                                                                                                                                                           요
                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                 ઠ
```

ĕ

Gape

266

323

485

563 545

503

8 6

ò 셤

```
128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ĠĠŦĀĠĠAĀŤÀAĀŢĊĊŤŢŢĠAĀĊAĀĀĠĢAĀĀŢĊŢĊŢŢŦĀĀĠAĀĊĀĠAĀĠĠĊĀĊĀĀĊŢĊĀA 785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   186 TGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATCACCAGATGTGTTGTGACATTTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAGCTCTCAAA - - - TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    carcitricaaaccreigareaaaaacritreaecraecreagaatriteaeaeaecreic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGTTGTTGTTGATCATTGAACTGGGAATATTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCAATCTAGTTGTTATTTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TTCCTACAAGAAACCTAAAATGAGAGAGTTTTTTATTGGACTGTCAGACCAGGTTGTCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      606 AGGGGAGCCCAACATAGCTACCCTGGAGGACTGTGCCACCATGAGAGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cccaaggcaaaarriggaargaagcrigririccrcaarrarrricggarrigrgaaar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        147 ATCCCACCACACAGAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CGGGGCCTCCATCCTCTCTCAGTGGCTGTTTCATCACCAGATGTGGTCGTAACATATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       rcaarccaecrecracrircrirricracreacecerrecreecerraecriraagaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        426 criccicadecargegeercaccreerestrarcaacreaceaeaeaecaeaarrecr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTTTCGCACAAAATCTAAAAGGAAAGACTTTTATATTTGGACTGACAGACCAGGTGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          546 GGGTCAGTGGCAATGGGTGGACGCACACCTTTGACAAAGTCTCTGAGCTTCTGGGATGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        624 TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gape
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length 997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 439.4; DB 9;
Pred. No. 2.4e-95;
0; Mismatches 216;
PRIOR FILING DATE: 1999-11-29
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR FILING DATE: 1999-11-30
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-16
PRIOR FILING DATE: 1999-12-06
PRIOR PRILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US99/3099
PRIOR PILING DATE: 1999-12-20
PRIOR PILING DATE: 1999-12-20
PRIOR PILING DATE: 1999-12-20
PRIOR PILING DATE: 2090-01-05
NUMBER OF SEQ ID NOS: 423
LENGTH: 997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      17.5%;
nilarity 72.9%;
Conservative 0
                                                                                                                                                                                                                                                                                                                                                                                                                             TYPE: DNA
ORGANISM: Homo Sapien
US-09-907-824-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local Similarity
Matches 610; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             726
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT: Marcher, Jennie P.
APPLICANT: Marcher, Jennie P.
APPLICANT: Pan, James
APPLICANT: Pan, James
APPLICANT: Pan, James
APPLICANT: Pan, James
APPLICANT: Tunas, Daniel
APPLICANT: Tunas, Daniel
APPLICANT: Tunas, Daniel
APPLICANT: Tunas, Daniel
APPLICANT: Tunas, Daniel
APPLICANT: Wood, William, I.
APPLICANT: Wood, William, I.
APPLICANT: Wood, William, I.
APPLICANT: Wood, William, I.
APPLICANT: Wood, William, I.
APPLICANT: Wood, William, I.
APPLICANT: Wood, William, I.
APPLICANT: Wood, William, I.
APPLICANT: Wood, William, I.
APPLICANT: Wood, William, I.
APPLICANT: WOOD, WILL APPLICANTON WOMBER: US/065,350
PRIOR APPLICATION NUMBER: US/0143,048
PRIOR PILING DATE: 2000-02-22
PRIOR PILING DATE: 1999-07-28
PRIOR PILING DATE: 1999-07-28
PRIOR PILING DATE: 1999-07-28
PRIOR PILING DATE: 1999-07-28
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-10-06
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-10-06
PRIOR PILING DATE: 1999-10-06
PRIOR PILING DATE: 1999-10-06
PRIOR PILING DATE: 1999-10-06
PRIOR PILING DATE: 1999-10-06
PRIOR PILING DATE: 1999-10-06
PRIOR PILING DATE: 1999-10-06
                                         666 CCCAAGGCAAATTGGAATGATGTAACCTGTTTCCTCAATTATTTTCGGATTTTGTGAAT 725
                                                                                                                                                                                        ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAATCCAACATAAGAAATAT 858
                                                                                              GCCAGAAATAAGTCCTCAGGACTAAGTGCAA----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                          GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACAACTCAA 785
                                                                                                                                                                                                                                      846 TGCGCTGAACTTCAAAGGACTTCATAAGTATTTGTTACTCTGATACAAATAAAATA 902
                                                                                                                                                                                                                                                                                     359 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAGA 915
       CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                          S-09-907-824-376
Sequence 376, Application US/09907824
Publication No. US20020197671A1
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gurney, Austin L.
Hillan, Kenneth, J.
Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ferrara, Napoleone
Filvaroff, Ellen
Fong, Sherman
Gao, Wei-Qiang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Goddard,
                                                                                                                                            726
                                                                                                                                                                                           99
                                                                                              744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
```

```
624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          999
                                                                                                 69
                                                                                                                                         147
                                                                                                                                                                                                                       207
                                                                                                                                                                                                                                                                                                    267
                                                                                                                                                                                                                                                                                                                                            246
                                                                                                                                                                                                                                                                                                                                                                                   324
                                                                                                                                                                                                                                                                                                                                                                                                                       306
                                                                                                                                                                                                                                                                                                                                                                                                                                                              384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                799
                                                              ઠે
                                                                                             ద
                                                                                                                                         ò
                                                                                                                                                                        셤
                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Timedy A.

APPLICANT: Timedy, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wold, Williams, P. Mickey
APPLICANT: Wood, Williams, I.
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/907,841
CURRENT FILING DATE: 2001-11-20
FRIOR FILING DATE: 1999-07-07
FRIOR APPLICATION NUMBER: US 60/143,048
FRIOR FILING DATE: 1999-07-07
FRIOR FILING DATE: 1999-07-07
FRIOR FILING DATE: 1999-07-07
FRIOR FILING DATE: 1999-07-08
FRIOR FILING DATE: 1999-07-08
FRIOR FILING DATE: 1999-07-08
FRIOR FILING DATE: 1999-07-08
FRIOR FILING DATE: 1999-07-08
FRIOR FILING DATE: 1999-09-13
FRIOR APPLICATION NUMBER: PCT/US99/2034
FRIOR FILING DATE: 1999-09-13
FRIOR FILING DATE: 1999-09-13
FRIOR FILING DATE: 1999-09-13
FRIOR FILING DATE: 1999-09-13
FRIOR FILING DATE: 1999-09-13
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR FILING DATE: 1999-10-06
FRIOR POSCANISM: HOMO Sapien
US-09-907-841-376
                                     ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAAATCCAACATAAGAAAATAT 858
                                                                                                                    846 TGCGCTGAACTTCAAAGGACTTCATAAGTATTTGTTACTCTGATACAAATAAAATA 902
                                                                            859 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAGA
                                                                                                                                                                                                               Sequence 376, Application US/09907841
Publication No. US20020198366A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Bostseth, David
APPLICANT: Besnoyers, Luc
APPLICANT: Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pan, James
Paoni, Nicholas F.
Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                 Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                       Fong, Sherman
Gao, Wei-Qiang
Gerber, Hanspeter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Goddard, A.
                                                                                                                                                                              RESULT 10
US-09-907-841-376
                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT
                                 ď
                                                                          8
ò
                                                                                                              유
```

```
146
                                                                                                                                                                       129 AACACAATGCACAGAGAGGGATGCTTC---TCTTCCCAAATGTTCTTATGGACTGTTGC 185
                                                                                                                                                                                                                                                                                                                                              266
                                                                                                                                                                                                                                                                                                                                                                               CAGCTCTCAAA---TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC 323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CATCTTTCAAACCTGTGATGAGAAAAGTTTCAGCTACCTGAGAATTTCACAGAGCTCTC 305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CIGCTACAGIGAGGCAICAGGIICAGICAAGAAIIGCIGICCIIIIGAACIGGAAACAITA 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CIGCTACAATTATGGATCAGGTTCAGTCAAGAATTGTTGTCCATTGAACTGGGAATATT 365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TCAATCTAGTTGTTATTTTTTCTCTACGACCATCGACCTGGTCATCAAGTTTAAAGAA 443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TTCCTACAAGAAACCTAAAATGAGAGAGTTTTTATTGGACTGTCAGACCAGGTTGTCGA 545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                546 GGGTCAGTGGCAATGGGTGGACGCCACCTTTGACAAAGTCTCTGACCTTTGGATGT 605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               606 addedecceacarcaraceraceracerdeaddacrereceacereadadacererreaa 665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT 743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCCAAGGCAAAATTGGAATGATGTAACCTGTTTCCTCAATTATTTTCGGATTTGTGAAAT 725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         744 GCCAGAAATAAGTCCTCAGGACTAAGTGCAA----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         726 GGTAGGAATAAATCCTTTGAACAAACTCAATTAAGAACAGAAGGCACAACTCAA 785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAAATCCAACATAAGAAAATAT 858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        859 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAAAAAA 915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGCGCTGAACTTCAAAGGACTTCATAAGTATTTGTTACTCTGATACAAATAAAATA 902
                                                                                                                  ATCCCACACACAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC
                                                                                                                                                                                                                                                                                                                                              CGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACCAGATGTGTCGTAACATATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITICGCACAAAATCTAAAAGGAAAGAGTTTTATTTGACTGACAGACCAGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GGGTCAGTGGCAATGGGAAGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAACTCACCAGGAGGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA
                                                             Gape
                                                          Indels 11;
     Length 997;
Score 439.4; DB 9;
Pred. No. 2.4e-95;
0; Mismatches 216;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 376, Application US/0904011; Publication No. US20030003530A1; GENERAL INFORMATION:
APPLICANT: Genentech, Inc.; APPLICANT: Betstein, David; APPLICANT: Betstein, David; APPLICANT: Beton, Dan L. APPLICANT: Faton, Dan L. APPLICANT: Ferrara, Napoleone; APPLICANT: Filvaroff, Ellen
17.5%;
  Query Match 17.5
Best Local Similarity 72.9
Matches 610; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 11
US-09-904-011-376
```

266

443

503 485 563 545 605

683

```
129 AACACAATGCACAGAGAGAGGATGCTTC---TCTTCCCAAATGTTCTTATGGACTGTTGC 185
                                                                                                                                                                                                                                                           246 CATCTTTCAAACCTGTGATGAAAAAGTTTCAGCTACCTGAGAATTTCACAGAGCTCTC 305
                                                                                                                                                                                                                                                                                                                CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA 383
                                                                                                                                                                                                                                                                                                                                             564 GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC 623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              606 AGGGGAGCCCAACAACATAGCTACCCTGGAGGACTGTGCCACCATGAGAGACTCTTCAAA 665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     666 CCCAAGGCAAAATTGGAATGATGATGAACCTGTTTCCTCAATTATTTTCGGATTTGTGAAAT 725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       726 GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACAACTCAA 785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            799 ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAAATCCAACATAAGAAAATAT 858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           859 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAGA 915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                846 IGCGCIGAACIICAAAGGACIICAIAAGIAIIIGIIACIICIGAIACAAIAAAAIA 902
                                                                                                                                    186 TGGGATCCCCCATCCTATTTCTCAGTGCCTGTTTCATCACCACAGATGTGTTGTGACATTTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          546 GGGTCAGTGGCAATGGGTGGACGGCACACCTTTGACAAAGTCTCTGAGCTTCTGGGATGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     684 CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT
                                                                                                                                                                                                           267 CAGCTCTCAAA---TITCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                    384 TCAATCTAGTTGTTATTTTTTTCTCTACGACCATCGTGACCTGGTCAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    366 reaarceaderderrerrerreraciaeadeacerregedegegraagrirraadaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      444 ITGCTCAGACATGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      426 CIGCTCAGCCATGGGGGGTCACCTGGTGGTTATCAACTCACAGGAGGAGGAGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           504 TITICGCACAAAATCTAAAAGGAAAGACTTTTATATTGGACTGACAGACCAGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 624 TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA
       ATCCCACACACAGAGAGGATGCTTCAAAAACTCCCAAAGTGCTCTCGGACGATAGC
                                                                                                            CGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACCAGATGTGTCGTAACATATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ; Sequence 376, Application US/09903640; Publication No. US20030017463A1; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gerritsen, Mary E.
Goddard, A.
Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gerber, Hanspeter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Wei-Olang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Fong, Sherman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Desnoyers,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-903-640-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
APPLICANT:
APPLICANT:
     147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
APPLICANT:
                                                                                                         207
                                                                                                                                                                                                                                                                                                                  324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT
                                                                                                                                                    g
                                                                                                                                                                                                                                                             엄
                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                  ద
                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                            ò
                                                                                                                                                                                                                                                                                                                          APPLICANT: ROY, MATGATEC ALL
APPLICANT: ROY, MATGATEC ALL
APPLICANT: ROW, MATGATEC ALL
APPLICANT: William, P. Micke
APPLICANT: Walliam, P. Micke
APPLICANT: Walliam, P. Micke
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE OF INVENTION: Acids Encoding the Same
CURRENT PILLYOTHON NUMBER: US/09/940,011
PRIOR PAPLICATION NUMBER: US/09/09-18
PRIOR PALICATION NUMBER: US 60/143,048
PRIOR PALICATION NUMBER: US 60/143,048
PRIOR PALICATION NUMBER: US 60/145,698
PRIOR PALICATION NUMBER: US 60/146,222
PRIOR APPLICATION NUMBER: US/09/2004
PRIOR PALICATION NUMBER: PCT/US9/2004
PRIOR PALICATION NUMBER: PCT/US9/2004
PRIOR PALICATION NUMBER: PCT/US9/2004
PRIOR PLICATION NUMBER: PCT/US9/2009
PRIOR PLICATION NUMBER: PCT/US9/2009
PRIOR PLICATION NUMBER: PCT/US9/2009
PRIOR PLICATION NUMBER: PCT/US9/2009
PRIOR PLICATION NUMBER: PCT/US9/2009
PRIOR PLICATION NUMBER: PCT/US9/2009
PRIOR PLICATION NUMBER: PCT/US9/2009
PRIOR PLICATION NUMBER: PCT/US9/2009
PRIOR PLICATION NUMBER: PCT/US9/2009
PRIOR PLICATION NUMBER: PCT/US9/2009
PRIOR PLICATION NUMBER: PCT/US9/2009
PRIOR PLICATION NUMBER: PCT/US9/2009
PRIOR PLICATION NUMBER: PCT/US9/2009
PRIOR PLICATION NUMBER: PCT/US9/2009
PRIOR PLICATION NUMBER: PCT/US9/2009
PRIOR PLICATION NUMBER: PCT/US9/2009
PRIOR PLICATION NUMBER: PCT/US9/2009
PRIOR PLICATION NUMBER: PCT/US9/2009
PRIOR PLICATION NUMBER: PCT/US9/2009
PRIOR PLICATION NUMBER: PCT/US9/2009
PRIOR PLICATION NUMBER: PCT/US9/2009
PRIOR PLICATION NUMBER: PCT/US9/2009
PRIOR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <u>AGAGAGAGAGAAACAAAAAACCAAAGAGAGAGAAAAAAATGAATTCATCTAAATCATCTGA</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 10; Length 997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  17.5%; Score 439.4; DB 10; Length
72.9%; Pred. No. 2.4e-95;
tive 0; Mismatches 216; Indels
                                                                                                       Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                      Gurney, Austin L.
Hillan, Kenneth, J.
Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                             Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
Gao, Wei-Qiang
Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match 17.5
Best Local Similarity 72.9
Matches 610; Conservative
                                                                               Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-904-011-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            69
                                                                                                                                                                                                                                   APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                           APPLICANT
                                                                                                                                                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠ
```

```
744 GCCAGAAATAAGTCCTCAGGACTAAGTGCAA----GGAAATACAAGGGACATGGCTTAC 798
                                               726 GGTÄGGAATAÅATCCTTTGAÅCAAAGGAAAATCTCTTTÄAGAACAGAAGGCACAACTCAA 785
                                                                                                 ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAAATCCAACATAAGAAATAT 858
                                                                                                                                         859 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAGA 915
                                                                                                                                                                                                                                  Transmembrane Polypeptides and Nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT: Walliams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane P.
TITLE OF INVENTION: Secreted and Transmembrane P.
TITLE OF INVENTION: Acids Encoding the Same
TITLE OF INVENTION: Acids Encoding the Same
CURRENT PAPLICATION NUMBER: US/09/908,093
CURRENT FILING DATE: 2000-09-18
PRIOR PILING DATE: 2000-09-18
PRIOR PILING DATE: 2000-09-18
PRIOR PILING DATE: 1999-07-26
PRIOR PILING DATE: 1999-07-26
PRIOR PILING DATE: 1999-07-26
PRIOR PILING DATE: 1999-07-26
PRIOR PILING DATE: 1999-07-26
PRIOR PILING DATE: 1999-07-26
PRIOR PILING DATE: 1999-07-26
PRIOR PAPLICATION NUMBER: US 60/146,222
PRIOR PAPLICATION NUMBER: US 60/146,222
PRIOR PAPLICATION NUMBER: PCT/US99/20594
PRIOR PILING DATE: 1999-09-18
PRIOR PILING DATE: 1999-09-15
PRIOR PLING DATE: 1999-09-15
PRIOR PLING DATE: 1999-09-15
PRIOR PLING DATE: 1999-09-15
PRIOR PLING DATE: 1999-09-15
PRIOR PLING DATE: 1999-09-15
PRIOR PLING DATE: 1999-09-15
PRIOR PLING DATE: 1999-01-15
PRIOR PLING DATE: 1999-10-05
PRIOR PLING DATE: 1999-11-29
PRIOR FILING DATE: 1999-11-30
PRIOR FILING DATE: 1999-11-30
PRIOR FILING DATE: 1999-11-30
PRIOR FILING DATE: 1999-11-30
PRIOR FILING DATE: 1999-11-30
PRIOR FILING DATE: 1999-11-30
                                                                                                                                                                                                                                                                                                                            RESULT 13
US-09-908-093-376
Sequence 376, Application US/09908093
Publication No. US20030017498A1
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Godowski, Paul J.
Grimaldi, Christopher J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Kljavin, Ivar J.
Mather, Jennie P.
Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gerber, Hanspeter
Gerritsen, Mary E.
Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Roy, Margaret Ann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ashkenazi, Avi
Botstein, David
Desnoyers, Luc
Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Wei-Qiang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Fong, Sherman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Stewart,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gao,
                                                                                                 799
                                                                                                                                                   786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT
                                       셤
                                                                                                 ò
                                                                                                                                         g
                                                                                                                                                                                                ₽
                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             69 AGAGAGAGAGAAACAAAAAACCCAAAGAGAGAGAAAAAATGAATTCATCTAAATCATCTGA 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         147 ATCCCACCACACAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC 206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 207 CGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACCAGATGTGTCGTAACATATCG 266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CAGCTCTCAAA---TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC 323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     246 carcitricaaaccreigargaagaaaagirrcagcraccrgagaarrrcacagagcrcrc 305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      306 crecracaarrargearcaegrrcagrcaagaarrerrerccarreaacregeaararr 365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCAATCTAGTTGTTATTTTTTTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA 443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                486 TTCCTACAAGAACCTAAAATGAGAGAGTTTTTTATTGGACTGTCAGACCAGGTTGTCGA 545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     546 GGGTCAGTGGCAATGGGTGGACGGCACACTTTGACAAAGTCTCTGAGCTTCTGGGATGT 605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       624 TGGGGAGCCCAACAATATAGTTTTGGTGGAGCACTGTGCCACCATAAGGGACTCTTCAAA 683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT 743
                                                                                                                                                                                              APPLICANT: Tummer, Dariel
APPLICANT: Tummer, Dariel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
FULE REFERENCE: 10466-14
FULE REPERENCE: 2001-07-11
PRIOR APPLICATION NUMBER: US/99/903,640
PRIOR APPLICATION NUMBER: 09/665,350
PRIOR FILING DATE: 2000-09-18
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     564 GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      444 TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          366 rcharccaccracracricrirricracracacaccarricrasscrinaadaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               426 CTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAACTCACAGGGAGGAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 504 TITICGCACAAAATCTAAAAGGAAAGAGTTTTATATTGGACTGACAGACCAGGTGGTGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 10; Length 997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match 17.5%; Score 439.4; DB 10; Length Best Local Similarity 72.9%; Pred. No. 2.4e-95; Matches 610; Conservative 0; Mismatches 216; Indels
                                                                                            Pan, James
Paoni, Nicholas F.
Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
                       Hillan, Kenneth, J
                                            Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUMBER OF SEQ ID NOS: 423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-903-640-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO 376
LENGTH: 997
                                                                                            APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           384
                                                                         APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LENGTH:
```

ద ò 요 ð g

셤 ò 셤 ò 셤

ઠે

a

ð

원

ઠે

g ò g ઠે

Š

```
FILING DATE: 1999-12-16
APPLICATION NUMBER: PCT/US99/30911
FILING DATE: 1999-12-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: PCT/US99/28564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICATION NUMBER: PCT/US99/28565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICATION NUMBER: PCT/US99/30095
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Goddard, A.
Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
                                                                                                                                                                                                                                                                      Sequence 376, Application US/09906742; Publication No. US20030023054A1; GENEAL INFORMATION: APPLICANT: Genericch, Inc.; APPLICANT: Ashkenazi, Avi APPLICANT: Botstein, David
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Fong, Sherman
Gao, Wei-Diang
Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 1999-11-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1999-12-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Desnoyers, Luc
Eaton, Dan L.
                                                                                                                                                                                                                                              US-09-906-742-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
APPLICANT:
                                                                                          요
                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ų,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     69 AGAGAGAGAGAAACAAAAAACCCAAAGAGAGAGAAAAAATGAATTCATCTAAATGATCTGA 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              129 AACACAATGCACAGAGAGGGATGCTTC---TCTTCCCAAATGTTCTTATGGACTGTTGC 185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             recearce contratricio de la respectación de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de la recenta de 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          246 carcirricaaaccrereareagaaaagrirreagcraccreagaarricacagagcrere 305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TCAATCTAGTTGTTATTTTTTTTTTAGACAACCTTGACCTGGTCATCAAGTTTAAAGAA 443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 426 CIGCTCAGCCATGGGGGCTCACCTGGTGTTATCAACTCACAGGAGGAGCAGGAGATTCCT 485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGGTCAGTGGCAATGGGTGGACGCACACTTTGACAAAGTCTCTGAGCTTCTGGGATGT 605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                606 AGGGGAGCCCAACAACATAGCTACCCTGGAGGACTGTGCCACCATGAGAGACTCTTCAAA 665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACAACTCAA 785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CAGCTCTCAAA---TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC 323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTGCTACAGTGAGGCATCAGGTTCAGTAATTGCTGTCCTTTGAACTGGAAACATTA 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      rcaarccagcrecracricriricracreacaccarrrccreecerraagriraaagaa 425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         444 TIGCICAGACAIGGGGGCTCACCIGGIGGIIAICGACACACAGGAAGAGCAGGAAIICCI 503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITICGCACAAAATCTAAAAGGAAAGAGTTTTATATTGGACTGACAGACCAGGTGGTGGA 563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GGGTCAGTGGCAATGGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC 623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     624 TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA 683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT 743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CCCAAGGCAAAATTGGAATGATGTAACCTGTTTCCTCAATTATTTTCGGATTTGTGAAAT 725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAAATCCAACATAAGAAAATAT 858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATCCCACCACACAGAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CGGGGCCTCCATCCTCTCAGTGGCTGTTTCATCACCAGATGTGTGTAGTATATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 439.4; DB 10; Length 997;
Pred. No. 2.4e-95;
0; Mismatches 216; Indels 11;
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR PLILING DATE: 1999-12-02
PRIOR PLILING DATE: 1999-12-16
PRIOR PILLING DATE: 1999-12-16
PRIOR PILLING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR PLILING DATE: 1999-12-20
PRIOR APPLICATION NUMBER: PCT/US09/00219
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR APPLICATION NUMBER: PCT/US00/00219
PRIOR SILING DATE: 2000-01-05
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     17.5%;
72.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match 17.5
Best Local Similarity 72.9
Matches 610; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TYPE: DNA
ORGANISM: Homo Sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; OKGANISM: HOM
US-09-908-093-376
                                                                                                                                                                                                                                                                                                                                                                                                     SEQ ID NO 376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    726
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            쉱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          염
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠ
```

```
APPLICANT: Mather, Jennie P.
APPLICANT: Mather, Jennie P.
APPLICANT: Pan, Jennie P.
APPLICANT: Stewart, Timothy A.
APPLICANT: Stewart, Timothy A.
APPLICANT: Stewart, Timothy A.
APPLICANT: Hilliams, P. Mickey
APPLICANT: William, P. Mickey
APPLICANT: William, P. Mickey
APPLICANT: William, P. Mickey
APPLICANT: William, P. Mickey
APPLICANT: Mod, William, P. Mickey
APPLICANT: Mod, William, P. Mickey
APPLICANTON: Secreted and Transmembrane Polypeptides and Nucleic
ITILE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acide Encoding the Same
FILE REFERENCE: 10466-14
CURRENT FILING DATE: 2001-07-16
PRIOR FILING DATE: 2000-09-18
RIOR APPLICATION NUMBER: US 60/143,048
PRIOR FILING DATE: 1999-07-08
PRIOR FILING DATE: 1999-07-08
PRIOR FILING DATE: 1999-07-08
PRIOR FILING DATE: 1999-07-08
PRIOR FILING DATE: 1999-07-08
PRIOR FILING DATE: 1999-09-08
PRIOR FILING DATE: 1999-09-08
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-10-05
PRIOR FILING DATE: 1999-09-15
                                         846 TGCGCTGAACTTCAAAGGACTTCATAAGTATTTGTTACTCTGATACAATAAAAATA 902
859 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAGA
```

```
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              503
                                                                                                                                                                                                                                                                                                                              69 AGAGAGAGAAACAAAAACCAAAGAGAGAGAAAAAAATGAATTCATCTAAATCATCTGA 128
                                                                                                                                                                                                                                                                                                                                                                                                               147 ATCCCACCACACAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC 206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 207 CGGGGCCTCCATCCTGTTTCAGGGCTGTTTCATCACCAGATGTGTCGTAACATATCG 266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       267 CAGCTCTCAAA---TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC 323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     306 CIGCTACAATTAIGGATCAGGTICAGICAAGAATTGTIGTCCATIGAACTGGGAATATTI 365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                486 friccracaagaaccraaaargagagarrrrrrarrggacrgrcaggccaggrigrcga 545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    564 GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC 623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              546 GGGTCAGTGGCAATGGGTGGACGGCACACTTTGACAAAGTCTCTGAGCTTCTGGGATGT 605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        624 TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA 683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                606 AGGGGAGCCCAACAACATAGCTACCCTGGAGGACTGTGCCACCATGAGAGACTCTTCAAA 665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          684 CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT 743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 666 cccaaggcaaatriggaargargraaccrgrrrccrcaarrarrrcggarrrgraaar 725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              744 GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     726 GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACAACTCAA 785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               799 ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAATCCAACATAAGAAAATAT 858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     859 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAGA 915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           846 TGCGCTGAACTTCAAAGGACTTCATAAGTATTTGTTACTCTGATACAAATAAAATA 902
                                                                                                                                                                                                                                                                                                                                                                                                                                            246 CATCTITCAAACCIGIGAIGAAAAAGITITCAGCIACCIGAGAAITICACAGAGCICIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    186 TGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATCACCAGATGTGTTGTGACATTTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      426 CTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAACTCACAGGAGGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCAATCTAGTTGTTATTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              504 TITICGCACAAAATCIAAAAGGAAAGAGITITIAIAITGGACIGACAGACCAGGIGGIGG
                                                                                                                                                                                                                                                                                      Gaps
                                                                                                                                                                                                                                                                                    11;
                                                                                                                                                                                                                                       17.5%; Score 439.4; DB 10; Length 997; 72.9%; Pred. No. 2.4e-95; tive 0; Mismatches 216; Indels 11;
; PRIOR APPLICATION NUMBER: PCT/US99/30999; PRIOR FILING DATE: 1999-12-20; PRIOR APPLICATION NUMBER: PCT/US00/00219; PRIOR PLING DATE: 2000-01-05; NUMBER OF SEQ ID NOS: 423; SEQ ID NO 376; LENGTH: 997; TYPE: DNA; ORGANISM: HOmo Sapien
                                                                                                                                                                                                                                          Query Match
Best Local Similarity 72.9
Matches 610; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                     요
                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                     엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
```

```
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        THILE REPREBNCE: 10466-14

CURRENT APPLICATION NUMBER: US/09/906,838

CURRENT FILING DATE: 2001-07-16

PRIOR APPLICATION NUMBER: 09/665,350

PRIOR PELLATION NUMBER: 09/665,350

PRIOR PELLATION NUMBER: 09/665,350

PRIOR PELLATION NUMBER: 06/143,048

PRIOR PELLATION NUMBER: US 60/145,698

PRIOR PELLATION NUMBER: US 60/145,698

PRIOR PELLATION NUMBER: US 60/145,698

PRIOR PELLATION NUMBER: US 60/145,698

PRIOR PELLATION NUMBER: US 60/146,222

PRIOR PELLATION NUMBER: PCT/US99/20594

PRIOR PELLATION NUMBER: PCT/US99/2094

PRIOR PELLATION NUMBER: PCT/US99/2094

PRIOR PELLATION NUMBER: PCT/US99/21090

PRIOR PELLATION NUMBER: PCT/US99/21090

PRIOR PELLATION NUMBER: PCT/US99/21090

PRIOR PELLATION NUMBER: PCT/US99/23089

PRIOR PELLATION NUMBER: PCT/US99/23089

PRIOR PELLATION NUMBER: PCT/US99/28564

PRIOR PELLATION NUMBER: PCT/US99/28564

PRIOR PELLATION NUMBER: PCT/US99/28564

PRIOR PELLING DATE: 1999-10-05

PRIOR PELLING DATE: 1999-11-29

PRIOR PELLING DATE: 1999-12-02

PRIOR PELLING DATE: 1999-12-02

PRIOR PELLING DATE: 1999-12-02

PRIOR PELLING DATE: 1999-12-02

PRIOR PELLING DATE: 1999-12-02

PRIOR PELLING DATE: 1999-12-02

PRIOR PELLING DATE: 1999-12-02

PRIOR PELLING DATE: 1999-12-03

PRIOR PELLING DATE: 1999-12-03

PRIOR PELLING DATE: 1999-12-03

PRIOR PELLING DATE: 1999-12-03

PRIOR PELLING DATE: 1999-12-03

PRIOR PELLING DATE: 1999-12-03

PRIOR PELLING DATE: 1999-12-03

PRIOR PELLING DATE: 1999-12-03

PRIOR PELLING DATE: 1999-12-03

PRIOR PELLING DATE: 1999-12-03

PRIOR PELLING DATE: 1999-12-03

PRIOR PELLING DATE: 1999-12-03

PRIOR PELLING DATE: 1999-12-03

PRIOR PELLING DATE: 1999-12-03

PRIOR PELLING DATE: 1999-12-03

PRIOR PELLING DATE: 1999-12-03

PRIOR PELLING DATE: 1999-12-03

PRIOR PELLING DATE: 1999-12-03

PRIOR PELLING DATE: 1999-12-03

PRIOR PELLING DATE: 1999-12-03

PRIOR PELLING DATE: 1999-12-03

PRIOR PELLING DATE: 1999-12-03

PRIOR PELLING DATE: 1999-12-03

PRIOR PELLING DATE: 1999-12-03

PRIOR PELLING DATE: 1999-12-03

PRIOR PELLING DATE: 1999-12-03

PRIOR PELLING DATE: 1999-12-03

PRIOR PELLIN
Sequence 376, Application US/09906838 Publication No. US20030027143A1 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <del>ب</del>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Godowski, Paul J.
Grimaldi, Christopher
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                  Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                          Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gurney, Austin L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                             APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botsein, David
APPLICANT: Beton, Dur
                                                                                                                                                                                                                                                                                                                                                                      Fong, Sherman
Gao, Wei-Qiang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Goddard, A.
```

```
ë,
                                                                                                                                            246 CATCITICAAACCIGIGATGAAAAAGITICAGCIACCIGAGAAITICACAGAGCICIC 305
                                                                                                                                                                              69 AGAGAGAGAGAAACAAAAACCCAAAGAGAGAGAAAAAATGAATCGATCTAAATCATCTGA 128
                                                                                                                                                                                                                 147 ATCCCACCACACAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC 206
                                                                                                                                                                                                                                        207 CGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACCAGATGTGGTCGTAACATATCG 266
                                                                                                                                                                                                                                                                                                           186 TGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATCACCAGATGTGTTGTGACATTTCG 245
                                                                                                                                                                                                                                                                                                                                                             CAGCTCTCAAA---TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC 323
                                                                                                                                                                                                                                                                                                                                                                                                                                     CTGCTACAGTGAGGCATCAGGTTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGTTGTCCATTGAACTGGAATATTT 365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TCAATCTAGTTGTTATTTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA 443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TITICGCACAAAATCTAAAAGGAAAGAGTTTTATATTGGACTGACAGACCAGGTGGTGGA 563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GGGTCAGTGGCAATGGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC 623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 546 GGGTCAGTGGCAATGGGTGGACGGCACACCTTTGACAAAGTCTCTGAGCTTCTGGGATGT 605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACATAAGGGACTCTTCAAA 683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      606 addicidadeadadataderracerragadeargracearcargadadacrerreaaa 665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT 743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              666 CCCAAGGCAAAATTGGAATGTAACCTGTTTCCTCAATTATTTTCGGATTTGTGAAAT 725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 744 GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           726 GGTAGGAATAAATCCTTTGAACAAAGGAAATCTCTTTAAGAACAGAAGGCACAAATCTCAT 785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      799 ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAAATCCAACATAAGAAAATAT 858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         444 TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT 503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             859 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGAAGA 915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  846 TGCGCTGAACTTCAAAGGACTTCATAAGTATTTGTTACTCTGATACAAATAAAAATA 902
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             426 CIGCICAGCCAIGGGGGCTCACCIGGIGGITAICAACICACAGGAGGAGCAGGAAITICCI
                                                                                                            Gaps
                                                                     Score 439.4; DB 10; Length 997;
Pred. No. 2.4e-95;
0; Mismatches 216; Indels 11;
                                                                     Query Match
Best Local Similarity 72.9%;
Matches 610; Conservative
; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-906-838-376
                                                                                                                                                                                                                                                     129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    624
                                                                                                                                                                                                                                                                                                                                                             267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          384
                                                                                                                                                                                                                                                                                                                                                                                                                                      324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                            셤
                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ∂
                                                                                                                                            8
                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
```

Search completed: June 9, 2005, 14:09:21 Job time : 2942 secs

THIS PAGE BLANK (USPTO)

Scoring table:

Searched:

Minimum DB E Maximum DB E

Database

Perfect score:

Sequence:

OM nucleic

6

```
AR473298 Sequence
AR527284 Sequence
AX37596 Sequence
AX37596 Sequence
BMC97785 Sequence
CQ398624 Sequence
CQ398624 Sequence
AX75298 Sequence
AX383021 Sequence
AR341794 Sequence
AR341794 Sequence
AR341794 Sequence
AR34576 Sequence
AR3576 Sequence
AR3576 Sequence
AR35770 Sequence
AX350279 Sequence
AX6511292 Sequence
AX6511292 Sequence
AX6511292 Sequence
AX6592 Sequence
AX6592 Sequence
AX6592 Sequence
AX6592 Sequence
AX6592 Sequence
AX6592 Sequence
AX6592 Sequence
AX6592 Sequence
AX45692 Sequence
AX45692 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TTCCAGGGGCTCTTTCTAAACTGAGAAGAAGGAAAAGGAAGAAGAAGGCAGGAAAAAGGA 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CGGTCTGTTACTCTTTGAACTTTTAAAAAGAGGCCAAGGATTCACCATTCAAGACTCACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 2517;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%; Score 2517;
100.0%; Pred. No. 0;
ive 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2517 bp
Novel C lectin and gene thereof.
E54035
E54035. I GI:22553489
JP 2001112482-A/1.
Mus Bp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ALIGNMENTS

    .2517
    /organism="Mus sp."
    /mol_type="genomic DNA"
    /db_xref="taxon:10095"

                                                                                                                                                                                                                                                                                                                                                AB024719
CQ411292
AX456962
AX456975
BC074967
                                                                                             BD075683
AX358499
AX358499
CQ404908
AR280525
AR280525
AR341794
AR341789
AR352766
AR453570
AR561158
AR561158
AR661158
                                                                AX375956
AX697785
                                                                                                                                                                                                                                                                                                                                                   01
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity 100.
Matches 2517; Conservative
439.4
4439.4
4439.4
4439.4
4439.4
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
1011.2
101
                                                                                                                                                                                                                                                                                                                                                                   108
105
105
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 1
E54035
LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    COMMENT
   ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                E54035 Novel C lec
BD094039 A novel C
AB024717 Mus muscu
AC124563 Mus muscu
BC003218 Mus muscu
AC109882 Rattus no
AY363175 Rattus no
CQ717831 Sequence
AC113782 Rattus no
CQ414662 Sequence
AC00715 Homo sapi
BC000715 Homo sapi
BC138498 Sequence
BD172543 Secreted
BD172543 Secreted
BD172543 Secreted
BD173505 Secreted
BD173505 Secreted
BD173505 Secreted
BD173505 Secreted
BD173505 Secreted
BD173505 Secreted
                                                                                                                                   (without alignments)
11278.137 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                               US-10-812-620-1
2517
1 cggtctgttactcttgaact......aaataaagtaataaactatt 2517
                                                                                                                June 9, 2005, 02:45:01; Search time 10814 Seconds
                 GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                4708233 segs, 24227607955 residues
                                                                                                                                                                                                                                                                                                                             Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                 Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AY363175
CQ717831
AC113782
CQ414662
AB024718
BC000715
AX083498
BD172543
                                                                                nucleic search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AB024717
AC124563
BC003218
AC109882
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BD175534
AR410914
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BD173500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BD173181
                                                                                                                                                                                                                                                IDENTITY_NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                 seq length: 0
seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query
Match Length DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9b ba: *
9b htg: *
9b om: *
9b om: *
9b ow: *
9b ph: *
9b ph: *
9b pr: *
9b ro: *
9b ro: *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.0 2517
100.0 2517
98.9 210092
61.9 1606
22.035
22.035
22.035
18.3 2144
18.1 24684
18.1 2143
18.1 2143
17.5 997
17.5 997
17.5 997
                                Copyright
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GenEmbl:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9:
10:
```

PAT 27-AUG-2002

ö

Gape ö

2517 2517 2517 1859.8 11859.2 1173.4 461.4 456.2 456.2 4411

Score

Result ģ. 441

Db 241 ATCACCAGATGTGTGTAACATATCGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCA 300 Qy 301 CATAGAAATATTAAGGAGCTTTCCTGCTACAGTGAGGCATCAGGTCAAGAATTGC 360	541 GGACTGACAGCAGGTGGTGGAGGCTCAGTGGCAATGGGAGGATGATACACCTTTCACA [001 ACATAAGRACHTGTTCCCATTGCTAAAAGTCCACAGCATTGTCTGTAGTCTTG 960
Oy 2281 AAACTGAAGTGATCATGATAACTTTTGGATCTTTTCACTTTTCTATTGCTGTGATG 2340 Db 2281 AAACTGAAGTGATCATGATAACTTTTGGATCTTTTCACTTTTCTATTGCTGTGATG 2340 Oy 2341 AAACATGACCCCAAAACTATCTTGGACCGGGAAATTTTAATTTATCTTAACATAAATTTC 2400 Db 2341 AAACATGACCCCAAAACTATCTTGGACCGGGAAAATTTTAATTTATCTTAACATAAATTTC 2400 Oy 2401 CTATTTAGAAATTGGACAGGTGGGGAAATCATCCAAAAATGTAACTATT 2460 Db 2401 CTATTTAGAAATTGGACAGGTGGGGAATCATCCAATTGAAACTCGAAAAATGTAGTGTTT 2460 OY 2461 TGTACATTAGGAAAAAACAACTTTAGCCACAAAAATAAAATAAACTATT 2517 Db 2461 TGTACATTAGGAAAAAAACAACTTTAGCCACAAAAATAAAATAAACTATT 2517 Db 2461 TGTACATTAGGAAAAACAACTTTAGCCACAAAAATAAAATAAACTATT 2517	RESULT 2 BD094039 LOCUS BD094039 LOCUS BD094039 LOCUS BD094039 LOCUS ACCESSION BD094039 VERSION BD094039.1 G1:25639627 KEYWORDS WO 0127271-A/1. CREANISM WHO SP. ORGANISM MAMMalia; Eutheria; Rodentia; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus. B. AUTHORS AVITAS Anovel C-type lectin and its genes. JOURNAL Patent: WO 0127271-A 1 19-APR-2001; AUTHORS AVITAS ANO 0127271-A 1 19-APR-2001; DADAN SCIENCE AND TECHNOLOGY CORP, SHIZUO AKIRA, MAKOTO MATSUMOTO COMMENT OS MUS SP. ON 0127271-A 1 19-APR-2001; PP 19-APR-2001 PP 293724 PI SHIZUO AKIRA, MAKOTO MATSUMOTO CA MALEA3/00 RAIZUNISA, CONTAINA, MAKOTO MATSUMOTO CREATION AND AND AND AND AND AND AND AND AND AN	PEATURES CC

```
11/11/99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         17;
                                                                                                                   AB024717.1 GI:5821285
Mincle; macrophage C-type lectin Mincle.
Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    98.9%; Score 2489.8;
99.3%; Pred. No. 0;
iive 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                  /organism="Mus musculus"
/mol_type="mRNA"
/db_xref="taxon:10090"
1. .2517
                                                                                                                                                                                                                                                                . q w d
                                                                                                                                                                                                                                                                                                                                                          Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                            'gene="Mincle"
                                                                                                                                                                                                                                                                                                                                                                                                                                       124. .768
/gene="Mincle"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                     Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
                                                                                                                                                                                                                                                              10528209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Best Local Sim.
Matches 2500;
                    2461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         121
2461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                   VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                   DEFINITION
                                                                                                                                                                                                                                                           PUBMED
REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                        JOURNAL
MEDLINE
                                                                                                         ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                    gene
                                                  RESULT 3
AB024717
                                                                                                                                                                                     REFERENCE
                                                                                                                                                                                               AUTHORS
                                                                                                                                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                       CDS
                                                                                                                                                                                                                   TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORIGIN
ò
              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8 S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                원
                                                                                               1560
                                                                                                                    1560
                                                                                                                                          1620
                                                                                                                                                    1680
                                                                                                                                                                                                                                                  1740
                                                                                                                                                                                                                                                                         1800
                                                                                                                                                                                                                                                                                              1800
                                                                                                                                                                                                                                                                                                                   1860
                                                                                                                                                                                                                                                                                                                                        1860
                                                                                                                                                                                                                                                                                                                                                              1920
                                                                                                                                                                                                                                                                                                                                                                                                       1980
                                                                                                                                                                                                                                                                                                                                                                                                                    1921 ATGCACTTGAGTATAAGGCTTTCTACTGGACCATAGCCTCTCGGCAACCACCACCATAC 1980
                                                                                                                                                                                                                                                                                                                                                                                                                                                 2040
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2040
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2220
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2400
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTATTTAGAAATTGGACAGGTGGGGAATCATCCAATTGAAACTCGAAAAATGTAGTGTTT 2460
                                                                TAAATTAATTTGTCATATTAGCACTCATTACGAGCACTTCTATTAGACTTTCTCACAATC 1680
                                                                                                                                                                                                                              TGATTTTGAAATTGATAACCTTATTTTAAATACAAATATATCTTACAACCACACATTTGA 1740
                                                                                                                                                                                                                                                                                                                                                                                  1861 TCCCAATTTCATGTGCTCCTCTTTGTTTTAAACCCACTCTATCTGCTCAGTGCTTCCTGA 1920
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2281 AAACTGAAGTGATCATGATAGATAACTTTTGGATCTTTTCACTTTTCTATTGCTGTGATG 2340
                                                                                                          TATTGCATGATATTCTGTCAATATAGACCATGTTTCTTCCAGACAAAGCCCATTAGGAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                             2101 TGCTATCTCTTCTGTATCCCTAGAATCTCTAGGAGCTTCATATTAAAAGATTCTGAATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCAAGGTTCATTACACTCCTTGACTTGTATATTGTGACATCCCTCCATCTCTAGGATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2221 GCAAGGTTCATTACACTCCTTGACTTGTATATATTGTGACATCCCTCCATCTCTAGGATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1381 TTCTATAAACTGGATTTCACCTGTACTTGTATCTACTGCGCAAGTAGAACCTGCTCAGTA
                                                                                               TATTGCATGATATTCTGTCAATATAGACCATGTTTCTTCCAGACAAAGCCCATTAGGAAC
                                                                                                                                                                                               TABATTAATTTGTCATATTAGCACTCATTACGAGCACTTCTATTAGACTTTCTCACAATC
                                                                                                                                                                                                                                                                                                                               1801 ATGAACCCATCCTTACTCTCCTCACTACAACCTGCTCCTATCCACCTCACTGATTTTCCC
                                                                                                                                                                                                                                                                                                                                                                                                      ATGCACTTGAGTATAAGGCTTTCTACTGGACCATAGCCTCTCGGCAACCACATCCCATAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATGAGCTCCATGCCATTCATGCTGGAATTTGGGTTGTTTTATGTAACCTTTATATATTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CATCAAAGGGCACACAAAGAAATCACAAAGACCATGTGGTTTTCTGTCCTTGGGTTTATTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAACTGAAGTGATCATGATAGATAACTTTTGGATCTTTTCACTTTTCTATTGCTGTGATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAACATGACCCAAAACTATCTTGGGCCGGGAAAATTTTAATTTATCTTAACATAAATTTC
                                                                                                                                         TTCAGCAGCAGTCACACATTGTAATAAACATGTATCCTTGAGTAGGAAAATTAAACTAAA
                                                                                                                                                                                                                                         TGATTTTGAAATTGATAACCTTATTTAAATACAAATATATGTTACAACCACACATTGA
                                                                                                                                                                                                                                                                       CITCICITITIAAAATTATTITIGITIGAAAATTITIGIGCATTIATATATICACITITA
                                                                                                                                                                                                                                                                                                                 ATGAACCCATCCTTACTCTCACTACAACCTGCTCCTATCCACCTCACTGATTTTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                2161 CATCAAAGGCACACAAAGAAATCACAAAGACCATGTGGTTTCTGTCCTTGGGTTATTT
                                                                                                                                                                                                                                                  1691
                                                                                                                                                                                                                                                                                            1741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2041
                                                                                              1501
                                                                                                                   1501
                                                                                                                                                              1561
                                                                                                                                                                                                                              1681
                                                                                                                                                                                                                                                                       1741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1981
                                                                                                                                         1561
                                                                                                                                                                                                         1621
                                                                                                                                                                                                                                                                                                                                                            1861
                                                                                                                                                                                                                                                                                                                                                                                                       1921
                                                                                                                                                                                                                                                                                                                                                                                                                                                 1981
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2401
                                                    1441
                                                                                                                                                                                    1621
                                                                                                                                                                                                                                                                                                                   1801
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2221
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2281
                                                                                                                                                                                                                                           요
                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                               임
                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                     q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                     g
                                                                                                                                                                                                                            ሯ
                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8686
                          吕
                                                 8 8 8
                                                                                                            g
                                                                                                                                      ò
                                                                                                                                                       a
                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
```

```
/codon_start=1
/product="macrophage C-type lectin Mincle"
/product="macrophage C-type lectin Mincle"
/prodein_id="BAA83754.1"
/db_xref="G1:8A21286"
/translation="MNSTKSPASHHTERGCFKNSOVLSWTIAGASILFLSGCFITRCV
/translation="MNSTKSPASHHTERGCFKNSOVLSWTIAGASILFLSGCFITRCY
/translation="MNSTKSPASHHTERGCFKNSOVLSGWWWDPTPTS SLINGSDWGAHLN'1DTOBESGFLFRTKPFKREFYIGLTDQVVBGQWWDDTPFTF
SLSFWDAGEPNNIVLVEDCATIRDSSNSRKNWNDIPCFYSMPMICEMPEISPLD"
                                                                                                                                                                                                                  AB024717 2517 bp mRNA linear ROD 10-NOV-1999
Mus musculus mRNA for macrophage C-type lectin Mincle, complete
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Akira, S. and Matsumoto, M. Akira, S. and Matsumoto, M. Direct Submisson Matsumoto, M. Submitted (199-MAR-1999) Shizuo Akira, Osaka University, Department of Host Defense, Research Institute for Microbial Diseases; 3-1 Amada-Oska, Sulfa, Osaka 565-0871, Japan (E-mail:sakira@biken.osaka-u.ac.jp, Tel:81-6-6879-8303, Pax:81-6-6879-8305)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TTCCAGGGGCTCTTTCTAAACTGAGAAGGAAAAGGAAAAGGAAGAAAGGCAGGAAAAAGGA 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          240
                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus. I sitee)
Matsumoto, M., Tanaka, T., Kaisho, T., Sanjo, H., Copeland, N.G., Gilbert, D.J., Jenkins, N.A. and Akira, S.
A novel LPS-inducible C-type lectin is a transcriptional target of WF-ILG in macrophages
J. Imminol. 163 (9), 5039-5048 (1999)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  181 receasorecrerecadadaracecesesecrecarecrerrreresereserrer 240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATCACCAGATGTGTGGTAACATATCGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCA 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
CGGTCTGTTAGTCTTTGAACTTTTTAAAAAGGGGCCAAGGATTCACCCATTCAAGAGACTCACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CGGTCTGTTACTCTTGAACTTTTAAAAAGAGGGCCAAGGATTCACCATTCAAGACTCACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gape
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 10; Length 2517;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
```

1321 GTTCCTAACAGATTGTGATCTAGTCCACTCTTCCTGGAGCCCCATTTTCTCTGTGTTCTC 1380 1381 TTCTATAAACTGGATTTCACCTGTACTTGTATCTACTGCGCAAGTAGAACTGCTCAGTA 1440 1381 TTCTATAAACTGGATTTCACCTGTACTTGTATCTACTGCGCAAGTAGAACTGCTCAGTA 1440 1441 GGTTCAAAGTGAAATTATTAAAAATTCATGTTCACATTTTCTGTCTCAGGACTGCATT 1500 1441 GGTTCAAAGTGAAATTATTTAAAAAATTCATGTTCACATTTTCTGTCTCAGGACTGCATT 1500	01 TATTGCATGATATTCTGTCAATATAGACCATGTTTCTTCCAGACAAAGCCCATTAGGAAC 15	1621 TAAATTACTCATATTAGCACTCATTACGAGCACTTCTATTAGATTTTCTCACAATC 1680	1741 CTTCTTTTTAAAATTATTTTGTTTGAAAATTTTGTGCATTTATATATA	1861 TCCCAATTTCATGGTCCTCTTTGTTTTAAACCCACTCTATGGCTCAGTGCTTCCTGA 1920	1981 TCCACCTGCTCCAGCAGGAACAATAGCCAATTGACCATCTTCAGCTGAGGATGGAT	2101 TGCTATCTCTTCTGTATCCCTAGAATCTCTAGGAGCTTCATATAAAAGATTCTGAATTC 2160 [21 GCAAGGTTCATTACACTCCTTGACTTGTATATTGTGACATCCCTCCATCTCTAGGATG 228	2341 AAACATGACCGAAAACTTTGGGCCGGGAAATTTTAATTTATCTTAACATAAATTTC 2400 2341 AAACATGACCGAAAACTTTGGGCCGGGAAAATTTTAATTTATCTTAACATAAATTTC 2400 2341 AAACATGACCGAAAACTTTGGGCCGGGGAAAATTTTAATTTATCTTAACATAAATTTTC 2400 2401 CTATTTAGAAATTGGACAGGTGGGGAATCATCAATTGAAACTCGAAAAATGTAGTTT 2460 2401 CTATTTAGAAATTGGACAGGTGGGGAATCATCCAATTGAAACTCGAAAAATGTAGTTT 2460
8 & 8 & 8	8 & 8 &	8 8 8	8 6 8 6	8 6 8 6	6 6 6	99 99 G	8 6 8 6	8 & 8 &
	TGTCCTTTGAACTGGAAACATTATCAATCTAGTTGTTATTTTTTTT	ACACAGGAAGGAGGAGAATTCCTTTTTCGCACAAAACCTAAAAGGAAAGAAA	GCCACCATAAGGGACTCTTCAAACTCCAGGAAGAACTGAAGATTTTGGTGGAGGACTGT 86 GCCACCATAAGGGACTCTTCAAACTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTAC 72 [ACAAGGGACATTGTGAGATGCCAGAAATAAGTCCTCTGGACTAAGTGCAAGGAAATAACAAGGGAAATAACAAGGGACATGCATG	841 TCCAACATAAGAAAATATCTATCAGGCATCAGAAGGACTGCACATGTATGT	GAAGAAAGGGATTCTCCTTTTCACATCTGTCTTGCACTTGCTTG	CATCCTGTTCTTTCTACATCCTTGGCTCTAGCTTATCTATC	1261 GGGAGAATGGCATGGCAAGGACATCTCCATATGGAAAGGCCGGTCAAACTTCA 1320 1261 GGGAGAATGGCATGGCCTTCAGCAAGGACATCTCCATATGGAAAGGCCGGTCAAACTTCA 1320 1321 GTTCCTAACAGATGTGATCTAGCAAGGACATCTCTGGAGACCCCGTTTTCTCTGTGTTCTC 1380

SOURCE ORGANISM

VERSION KEYWORDS

ACCESSION

TITLE JOURNAL REFERENCE AUTHORS TITLE JOURNAL REFERENCE

AUTHORS

REFERENCE

REFERENCE AUTHORS TITLE JOURNAL

AUTHORS TITLE JOURNAL

EFERENCE

JOURNAL

COMMENT

REFERENCE

TITLE

AUTHORS

AC124563/c LOCUS DEFINITION

```
The RPCI-23 BAC Library has been constructed by Kazutoyo Osegawa and Minako Tateno in the laboratory of Pieter de Jong (http://www.chori.org) from female C57BL/6J mouse kidney and/or brain genomic DNA. The clone and detailed information can be obtained from Research Genetics, Inc. (http://www.resgen.com) or Pieter de Jong and coworkers at http://www.chori.org
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                .41. .191
note="Sequence derived from one plasmid subclone."
                                                                                                                                                                                                                               NEICHBORING SEQUENCE INFORMATION:
This sequence is the entire insert of the clone.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                       1. .210092
/organism="Mus musculus"
/mol_type="genomic DNA"
/db_xref="taxon:10090"
                                                                                                                                                                                                                                                                                                                                                                                                    /chromosome="6"
/map="6"
/clone="RP23-206B15"
/clone_lib="RPCI-23"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               rpt_family="RMER10A"
710<u>6</u>. .17158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /rpt_family="Alu"
19886. .20388
/rpt_family="ERVK"
21469. .21573
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /rpt_family="ERVK"
5211. .5462
/rpt_family="ERVK"
5449. .5582
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           σ530. .8982
/rpt_family="ERVK"
/2521. .1396.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       rpt_family="MaLR"
4744. .1487
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            4744. .14873
rpt_family="MaLR"
5254. .15521
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              rpt family="ERVK" (6957. .17102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  rpt_family="ERV1"
7286. .17534
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      'rpt_family="BRVK"
11576. .21729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /rpt_family="BRVK"
21606. .21751
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /rpt_family="ERVL"
2395. .3280
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  rpt_family="ERVK"
3732. .13981
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21606. .21751
/rpt_family="ERVK"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   272. .2043
/rpt_family="L1"
2046. .2186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          rpt_family="ERVK"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       rpt_family="MaLR"
4522. .14653
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                27. .122
/rpt_family="L1"
141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        '="ERVK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      rpt_family="L1"
3456. .13694
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           rpt_family="L1"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              rpt family="L1"
3250. .13448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           rpt_family="L1"
4058. .14453
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          rpt_family="B4"
8783. .18936
http://genome.wustl.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /rpt_family="
                                            SOURCE INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                unsure
                                                                                                                                                                                                                                                                                FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mapping information for this clone was provided by Dr. Wes Warren, Department of Genetics, Washington University, St. Louis MO. For additional information about the map position of this sequence, see
                                                                                                                                                                                   AC124563 210092 bp DNA linear ROD 25-NOV-2003
Mus musculus BAC clone RP23-206B15 from chromosome 6, complete
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      63108, USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequencing of Mus musculus
Unpublished (2001)
3 (bases 1 to 210092)
MCPherson, J.D. and Waterston, R.H.
Direct Submission
Submitted (14-JUN-2002) Genome Sequencing Center, 4444 Forest Park
Parkway, St. Louis, MO 63108, USA
4 (bases 1 to 210092)
MCPherson, J.D. and Waterston, R.H.
Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NOTICE: This sequence may not represent the entire insert of this clone. It may be shorter because we only sequence overlapping clone sections once, or longer because we provide a small overlap between neighboring data submissions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Direct Submission
Submitted (29-UTL-2003) Genome Sequencing Center, 4444 Forest Park
Parkway, St. Louis, MO 63108, USA
(bases 1 to 210092)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This sequence was finished as follows unless otherwise noted: all regions were double stranded, sequenced with an alternate chemistry, or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by sequence from more than one subclone; and the assembly was confirmed by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Submitted (15-APR-2003) Genome Sequencing Center, 4444 Forest Park
Parkway, St. Louis, MO 63108, USA
5 (bases 1 to 210092)
                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 210092)
Abbott; and Meyer,R.
The sequence of Mus musculus BAC clone RP23-206B15
Unpublished (2001)
                                            2461 TGTACATTAGGTTACAGAAAACAACTTTAGCCACAAAAATAAAGTAATAAACTATT 2517
                   2461 TGTACATTAGGTTACAGAAAAACAACTTTAGCCACAAAAATAAAGTAATAAACTATT 2517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Submitted (25-NOV-2003) Department of Genetics, Washington University, 4444 Forest Park Avenue, St. Louis, Missouri 63 On Ull 29, 2003 this sequence version replaced gi:29837778.

Center: Washington University Genome Sequencing Center Center code: WUGSC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Web site: http://genome.wustl.edu
Contact: submissions@watson.wustl.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Center project name: M BA0206B15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Summary Statistics
                                                                                                                                                                                                                                                                                                                        Mus musculus (house mouse)
                                                                                                                                                                                                                                                          AC124563
AC124563.4 GI:33300796
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MAPPING INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     restriction digest.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Wilson, R.K
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Wilson, R
```

```
128601 AGGGACTCTTCAAACTCCAGGAAGAACTGGAATGATATACCCTGTTTCTACAGTATGCCT 128542
                                           128302
                                                                                                                                                                                                                                                                 128182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         127762
                                                                                                                                                                                                                                                                                                                                                                                     128122
                                                                                                                                                                                                                                                                                                                                                                                                                                         128121 CTTTCTACATCCTTGGGTCTAGCTTATCTATCAGTACATAGATCACTTCTGTGTTC 128062
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             127822
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       127702
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           127642
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 127582
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     127522
                                                                                                                                                                                                                                                 1029
                                                                                                                                                                                                                                                                                                                                                           1149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1568
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1389
                                                                                                 GATTCTCCTTTTCACATCTGTCTTGCACATCTGTCTTGCTCATGAGAATTGATGAAGG
                                                                                                                                                                                                                                                                                                                                128241 GATTCTCCTTTTCACATCTGTCTTGCACATCTGTCTTGCTCATGAGAATTGATATGAAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGATTGTGATCTAGTCCACTCTTCCTGGAGCCCCATTTTCTCTGTGTTTCTTCTATAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   127981 CTGGATTTCACCTGTACTTGTATCTACTGCGCAAGTAGAACCTGCTGCTGCAGTAGGTTCAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1450 TGAAATTATTTAAAAATTCATTTCACATTTTTCTGTCTCAGGACTGCATTTATTGCATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      127641 TTTGACATATTAGGACTCATTACGAGCACTTCTATTAGACTTTCTCACAATCTGATTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GAAAGATCTCTTTTAGACTGTACAGATCAATTCTCTAACAAATGCAACAAGAAGGA
                                                                                                                                                                                                                                                                                                                                                                                      AACAGGTAGAAAGCAGATGTCTGTATAAAGAGACTTTAATGGTCACTATGTCATCCTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1210 TCCAACAGTGAGGAAGATGCATCTTTGAGTCTTTAAACTTACCTGCCGCTTGGGAGAATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCATGGCCTTCAGCAAGGACATCTCCATATGGAAAGGCCGGTCAAACTTCAGTTCCTAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1330 AGATTGTGATCTAGTCCACTCTTCCTGGAGCCCCCATTTTCTCTGTGTTCTCTTTTTAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTGGATTTCACCTGTACTTGTATCTACTGCGCAAGTAGAACCTGCTCAGTAGGTTCAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATATTCTGTCAATATAGACCATGTTTCTTCCAGACAAAGCCCATTAGGAA-CTTCAGCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CAGTCACACATTGTAATAAACATGTATCCTTGAGTAGGAAAATTAAACTAAATTAA
                                                                                   ATGGCTTACATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACAAAATCCAACATA
                                                                                                                                      AAAAGACTTGTTCCCATTGCTAAAAGTCCACAGCATTGTCTGATGGTCTTGCCATAACCT
                                                                                                                                                                                                                                                                                                                                                           AAGAGGTAGAAAGCAGATGTCTGTATAAAGAGACTTTAATGGTCACTATGTCATCCTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                 CTTTCTACATCCTTGGCTCTAGCTTATCTATCAGTACATAGATCACTTCTGTGTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TTTGTCATATTAGCACTCATTACGAGCACTTCTATTAGACTTTCTCACAATCTGATTTTG
                                                                                   790
                                                                                                                                         850
                                                                                                                                                                                           910
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1510
                                                                                                                                                                                                                                                 970
                                                                                                                                                                                                                                                                                                                                                           1090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1270
                                                                                                                                                                                                                                                                                                                                                                                      128181
                                                                                                                                                                                                                                                                                                                                                                                                                 1150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         127941
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1390
                                730
                                                                                                                                                                                                                      128361
                                                                                                                                                                                                                                                                                                       1030
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1569
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1689
                                                     셤
                                                                                                        쉱
                                                                                                                                                          ద
                                                                                                                                                                                   ò
                                                                                                                                                                                                                 요
                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                              a
                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                             ò
                                                                               ò
                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          699
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              670 AGGGACTCTTCAAACTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          610 ACCTTCTGGGATGCTGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2; Gaps
                                                                                                                                                                            25137. .25184
/rpt family="ERVK"
25663. .25843
/rpt family="82"
26462. .26479
/note="Sequence derived from one plasmid subclone."
26634. .26849
                                                                                                                            23522. .23560
Anote="Sequence derived from one plasmid subclone."
24461. .25030
                                                                                              note="Sequence derived from one plasmid subclone."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 10; Length 210092;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               18; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 73.8%; Score 1857.2; Best Local Similarity 99.0%; Pred. No. 0; Matches 1890; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                      29331...2945

29331...2945

29331...2948...1."

29333...30599

/rpt_family="L1"

30587...30691

/rpt_family="L1"

30587...30690

/rpt_family="L1"

30702...30400

/rpt_family="L1"

/rpt_family="ERVK"

31027...31421

/rpt_family="ERVK"

31027...3358

/rpt_family="ERVK"

31773...3305

/rpt_family="ERVK"

33773...3365

/rpt_family="ERVK"

3376...34665

/rpt_family="ERVK"

3316...34665

/rpt_family="ERVK"

40651...40636

/rpt_family="ERVK"

/rpt_family="ERVK"

40657...40636
                                                                                                                                                                                                                                                                                                                                                                                                /rpt_family="MaLR"
28616. .29012
/rpt_family="L1"
29331. .29454
                                        rpt_family="ERVK"
22423. .22814
                                                     22423. .22814
/rpt_family="ERVK"
33215. .23343
                                                                                                                                                                                                                                                                                                                                            /rpt_family="L1"
28125. .28259
/rpt_family="Alu"
28380. .28601
                rpt_family="ERVK"
2024. .22422
                                                                                                                                                                                                                                                                                                                 rpt_family="ERV1"
7803. .27978
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /vo/8. .41575
/rpt_family="L1"
41931. 401
                                                                                                                     'rpt_family="L1"
                                                                                                                                                                                                                                                                            rpt_family="L1"
7519. .27507
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           4193<u>1</u>. .42162
/rpt_family="L1"
                                                                                                            3254. .24396
repeat_region
                             repeat_region
                                                       repeat_region
                                                                                                            repeat_region
                                                                                                                                                                 repeat_region
                                                                                                                                                                                          repeat_region
                                                                                                                                                                                                                     repeat_region
                                                                                                                                                                                                                                                                            repeat_region
                                                                                                                                                                                                                                                                                                       repeat_region
                                                                                                                                                                                                                                                                                                                                                           repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             repeat_region
                                                                                                                                                                                                                                                                                                                                repeat_region
                                                                                                                                                                                                                                                                                                                                                                                      repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                          repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              repeat_region
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        repeat_region
                                                                                   unsure
                                                                                                                                      unsure
                                                                                                                                                                                                                                                unsure
```

ያ ප

ò

œ

요 Š 셤 ò 셤 ŝ g

셤 ò 셤

ઠે

g

ò

g ò 요

ò

g

ઠ

셤

ઠે

ઠે

```
/product="C-type lectin, superfamily member 9"
/protein id="AAH03218.1"
/brotein id="AAH03218.1"
/brotein id="AAH03218.1"
/brotein id="Hogo 189844"
/db xref="Locus10:566144"
/db xref="MGI:1861232"
/translation="MNSTKSPASHTERGCFKNSOVLSWTIAGASILPLSGCFITRCV
/translation="NNSTKSPASHTERGCFKNSOVLSWTIAGASILPLSGCFITRCV
/translation="NNSTKSPASHTERGCFKNSOVLSOVLSGOWUDDTPFTE
SLENCSDWGAAHLVYDTOGEOSELFERTKPFKREFYIGLTDQVVEGQWQWVDDTPFTE
SLENCSDWGAAHLVYDTOGEOSELFERTKPFKREFYIGLTDQVVEGQWQWVDDTPFTE
SLENCSDWGAAHLVYDTOGEOSELFERTKPFKREFYIGLTDQVVEGQWQWVDDTPFTE
SLENCSDWGAAHLVYDTOGEOSELFERTKPFKREFYIGLTDQVVEGQWQWVDDTPFTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /db_xref="taxon:10090"
/clone="MGC:5682 IMAGE:3158063"
/tissue_type="Mammary_tumor. C3(1)-Tag model. Infiltrating ductal_carcinoma. 5 month old virgin mouse."
/clone_lib="MCI_CGAP_Mam6"
/lab_host="DH10B"
McKernan, K. J., Malek, J.A., Gunaratne, P.H., Richards, S.,
Worley, K. C., Hale, S., Garcia, A. M., Gay, L. J., Hulyk, S.W.,
Worllalon, D.K., Muray, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A.,
Fahey, J., Helton, E., Ketreman, M., Madan, A., Rodrigues, S.,
Sanchez, A., Whiting, M., Madan, A., Young, A. C., Shevchenko, Y.,
Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D.,
Bouffard, G.G., Brakesley, R.W., Touchman, J.W., Green, E.D.,
Butterfield, Y. S., Krzywinski, M.I., Skalska, U., Smailus, D. E.,
Schnerch, A., Schein, J.E., Jones, S.J. and Marra, M.A.
Generation and initial analysis of more than 15,000 full-length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Clone distribution: MGC clone distribution information can be foun through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Series: IRAK Plate: 6 Row: 1 Column: 23
This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 9910161.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ë
                                                                                                                                                                                                                                                                                                                                                                                                                                    Direct Submission
Submitted (20-F83-2001) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequencing Center
Center code: BCM-HGSC
Web site: http://www.hgsc.bcm.tmc.edu/cdna/
Contact: amg@bcm.tmc.edu
Gunaratne, P.H., Garcia, A.M., Lu, X., Hulyk, S.W., Loulseged,
Kowis, C.R., Sneed, A.J., Martin, R.G., Muzny, D.M., Nanavati,
A.N., Gibbs, R.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Contact: MGC help deak
Email: cgapbs-r@mail.nih.gov
Trissue Procurement: Jeffrey Green M.D.
cDNA Library Preparade by: The Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Baylor College of Medicine Human Genome
                                                                                                                                                                                                                                                                                              human and mouse cDNA sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 10; Length 1606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NIH-MGC Project URL: http://mgc.nci.nih.gov
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 1558.4;
Pred. No. 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        note="Vector: pCMV-SPORT6'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /organism="Mus musculus"
/mol_type="mRNA"
/strain="FVB/N"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         db_xref="LocusID:56619"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /gene="Clecsf9"
/note="synonym: Mincle"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     db_xref="MGI:1861232"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           82. ... 726
/gene="Clecsf9"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61.9%;
98.9%;
                                                                                                                                                                                                                                                                                                                                                                                 (bases 1 to 1606)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .. .1606
                                                                                                                                                                                                                                                                                                                                                                                                            Strausberg, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                              12477932
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        source
                                                                                                                                                                                                                                                                                                                                                                                                      AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                      JOURNAL
                                                                                                                                                                                                                                                                                                                                                    PUBMED
                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REMARK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             127221 CCATGCCATTCATGCTGGAATTTGGGTTGTTTATGTTACCTTTATTATTATTGTGCTATC 127162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        127161 TCTTCTGTATCCCTAGAATCTCTAGGAGCTTCATATTAAAAGATTCTGAATTCCATCAAA 127102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  127101 GGGCACACAAGAAATCACAAAGACCATGTGGTTTCTGTCCTTGGGTTTATTTGCATGGT 127042
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             126981 AGTGATGATGATAGATAACTTTTGGATCTTTTCACTTTTCTATTGCTGTGATGAAACATG 126922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             126921 AGCCAAAACTATCTTGGGCCGGGAAATTTTTAATTTATCTTAACATAAATTTCCTATTTA 126862
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2407
                                                                                                                                                                                                                                                                 1929 GAGTATAAGGCTTTCTACTGGACCATAGCCTCTCGGCAACCACCACCATACTCCCACTACTCCACCTG 1988
                                                                                                                                                                                                                                                                                                                                                                                 2047
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2408 GAAATTGGACAGGTGGGGAATCATCCAATTGAAACTCGAAAAATGTAGTGTTTTGTACAT 2467
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ROD 29-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BC003218

1606 bp mRNA linear ROD 29-JUN-20 MSR musculus C-type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 9, mRNA (cDNA clone MGC:5682 in MAGE:3158063), complete cds.
                                                                                                                                                                                                                                                                                                 CCATGCCATTCATGCTGGAATTTGGGTTGTTTATGTAACCTTTATTATATTGTGCTATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TCTTCTGTATCCCTAGAATCTCTAGGAGCTTCATATTAAAAGATTCTGAATTCCATCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AGTGATCATGATAGATAACTTTTGGATCTTTTCACTTTTCTATTGCTGTGAAACATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2348 ACCCAAAACTATCTTGGGCCGGGAAAATTTTAATTTATCTTAACATAAATTTCCTATTTA
                                                                                                                                                                                                                                                                                                                                                                                 CTCCAGCAGGGAACAATAGCCAATTGACCATCTTCAGGTGAGGATGG-ATTTCATGAGCT
                                                                                                                                                TCATGTGCTCCTCTTTGTTTTAAACCCACTCTATCTGCTCAGTGCTTCCTGAATGCACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2168 GGGCACACAAAAAATCACAAAAGACCATGTGGTTTTCTGTCCTTGGGTTTATTTGCAAGGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2228 TCATTACACTCCTTGACTTGTATATATTGTGACATCCCTCCATCTCTAGGATGAAACTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                126801 TAGGTTACAGAAAAAACTTTAGCCACAAAAATAAAGTAATAAACTATT 126752
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2468 TAGGTTACAGAAAACAACTTTAGCCACAAAAATAAAGTAATAAACTATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BC003218
BC003218.1 GI:13096843
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2048
                                   1809
                                                                                                                                                1869
                                                                                                                                                                                                                                                                                                                                                                                 1989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2288
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 5
BC003218
```

09 1123 CTTTAATGGTCACTATGTCATCTTTTTTCACATC Db 1081 CTTTAATGGTCACTATGTCATCCTGTTTTTTTCACATC OY 1183 ATCAGTACATAGATCACTTGTGTTTTTCCAACAGTGA OY 1243 TAACTTACTGCGCTTGGGGAATGGCATGGCTTC Db 1201 TAACTTACTGCGTTGGGAATTGTGTTTCACTG OY 1303 AAGGCCGGTCAAACTTCGTGTTCTTAACATGGATTGATC OY 1363 CATTTCTCTGTGTTCTTTCATAAACTGGATTGTATC OY 1423 AGTAGAACTTGTGTTCTTTATAAACTGGATTTCAC OY 1423 AGTAGAACTGCTTAGTTCATAAACTGGATTTCAC OY 1483 CTGTCTCAGGACTCAGTAGATTATTT OY 1483 CTGTCTCAGGACTCAGTAGATATTTT OY 1591 AGTAGAACTGCTTTATTGCATGAAATTTTTT OY 1501 ACAAAGCCCATTAGGAA - CTTCAGCAGTATTCTGTCA OY 151 ACAAAGCCCATTAGGAA - CTTCAGCAGTCACACAT Db 1501 ACAAAGCCCATTAGGAA - CTTCAGCAGTCACACAT OY 1501 ACAAAGCCCATTAGGAA - CTTCAGCAGCACTCACACAT Db 1501 ACAAAGCCCATTAATAAATTAATTGTCACACAT OY 1602 GTAGGAAAATTAAATTAAATTGTCATAA 1601 ACAAAGCCCTAAAAGAATAAATTAATTGTCATAA 1602 GTAGGAAAATTAAATTAAATTTGTCATAA 1603 GTAGGAAAATTAAATTAAATTGTCATAA 1604 GTAGGAAAATTAAATTAAAATTGAAAAA 1605 GTAGGAAAATTAAATTAAATTGTCATAA 1606 GTAGGAAAATTAAATTAAATTGTCATAA 1606 GTAGGAAAATTAAATTAAATTGTCATAA 1607 GTAGGAAAATTAAATTAAATTGTCATAA 1607 GTAGGAAAATTAAATTAAAATTGAAAAA 1607 GTAGGAAAATTAAATTAGAAAAAAAAAAAAAAAAAAAA	REFULT 6 AC109882 AC109882 AC109882 AC109882 AC109882 AC109882.4 GI:3360730 AC109882.4 GI:33607730 AC109882.4 GI:33607730 AC109882.4 GI:33607730 AC109882.4 GI:33607730 AC109882.4 GI:33607730 AC109882.4 GI:33607730 AC109882.4 GI:23607730 AC10982.4 GI:23607730 AC10982.4 GI:23607730 AC10982.4 GI:23607730 AC1007071 AC10707071 AC10707071 AC10707071 AC10707071 AC10707071 AC10707071 AC10707071 AC10707071 AC1070707071 AC10707071 AC107070707 AC1070707 AC1070707 AC1070707 AC107 AC107 AC107 AC107 AC107 AC107 AC107 AC107 AC107 AC107 AC107 AC107 AC107 AC107
9; CONSELVATIVE 0; Mismatches 16; Indels 1; Gaps CACCATTCAAGACTCACTTTCCAGGGGCTCTTTCTAAACTGAGAGGAAAGGAAA CACCATTCAAGACTCACTTTCCAGGGGCTCTTTCTAAACTGAGAAGGAAAGGAAA CACCATTCAAGACTCACTTTCCAGGGGCTCTTTCTAAACTGAGAAGGAAAGGAAAGGAAA GAAAGGCAGGAAAAAGGAAATGAATTCAACCAAATCGCCTGCATCCCACCACAGG GAAAGGCAGGAAAAAGGAATTCAACCAAATCGCCTGCATCCCACCACAGG AGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGATGCCTGCATCCCTG AGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATGCCGCGCGCTCCATCCTG AGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATGCCGCTCCAATTTCC TTTCTCAGTGGCTGTTTCATCACCACAGTGTGTGTGTGTG	### ### ### ### ### ### #### #########
Σ	8 4 8 4 8 4 8 4 8 4 8 4 8 4 8

TTAAAAATTCATGTTCACATTTTT 1482 1140 BAGGAAGATGCATCTTGAGTCTT 1242 1302 CCTAGTCCACTCTTCCTGGAGCCC 1362 ACCTGTACTTGTATCTACTGCGCA 1422 SATATAGACCATGTTTCTTCCAG 1542 ATTGTAATAAACATGTATCCTTGA 1601 CAGCAAGGACATCTCCATATGGA 1260 CCTTGGCTCTAGCTTATCTATCT CAGCAAGGACATCTCCATATGGA 1637 1596 linear HTG 11-OCT-2002 CHED.

Vertebrata; Euteleostomi; thi; Muridae; Murinae;

In.A., Anguiano.D.,
In.A., Anguiano.D.,
I. Baca, B. Baden, H.,
I. Barnatead, M., Benahmed, F.,
I. Blyth, P., Brown, M.,
Blyth, P., Brown, M.,
Carderon, E.,
Carderon, E.,
Carder, J.,
Carderon, E.,
Carder, J.,
Carderon, E.,
Carder, J.,
Carder, J.,
Carderon, E.,
Carderon, E.,
Carderon, E.,
Carderon, E.,
Carderon, E.,
Carderon, E.,
Carderon, T.,
Carderon, M.,
Carderon, M.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon, C.,
Carderon

```
NOTE: This is a 'working draft' sequence. It currently consists of 4 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  clone end:T7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1. .222035
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches 1557; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 . .1284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Local Similarity
                                                                                                                                                                                                                                                                                                                                     7988
8088
11520
11620
175536
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Submitted (11-OCT-2002) Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA On Oct 9, 2002 this sequence version replaced gi:2174187.

The sequence in this assembly is a combination of BAC based reads and whole genome shotgun sequencing reads assembled using Atlas (http://www.hgsc.bcm.tmc.edu/projects/rat/). Each config described in the feature table below represents a scaffold in the Atlas assembly (a 'contig-scaffold'). Within each contig-scaffold, individual sequence contigs are ordered and oriented, and separated by sized gaps filled with Ns to the estimated size. The sequence may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole genome shotgun sequence reads. Both end sequences and whole genome shotgun sequence reads. Both end sequences and whole genome table.
       Karpathy, S., Kelly, S., Kelly, S., Khan, Z., King, L., Li, Z., Liu, J., Liu, J., Liu, W., Liu, Y., London, P., Longacre, S., Lopez, J., Louleeged, H., Lozado, R.J., Luu, X., Ma, J., Louleeged, H., Lozado, R.J., Luu, X., Mangum, A., Mahindartne, M., Mahmoud, M., Malloy, K., Mangum, A., Mahindartne, M., Mahmoud, M., Martinez, E., Mangum, B., Mapua, P., Martin, K., Martin, R., Martinez, E., Milosavijevic, A., Miner, G., Minja, E., Moneemayor, J., Moore, S., Morgan, M., Morris, K., Morris, E., Mondemayor, J., Moore, S., Morgan, M., Morris, K., Morris, S., Munidasa, M., Norris, S., Naackervis, C., Neal, D., Newton, N., Nguyen, N., Norris, S., Parks, K., Pasternak, S., Paul, H., Perez, A., Perez, L., Pfannkoch, C., Pandexter, A., Popovic, D., Primas, E., Pul, L.-L., Puazo, M., Quircoz, J., Rachlin, E., Reeves, K., Regier, M.A., Reigh, R., Reilly, B., Reilly, M., Ren, Y., Reuter, M., Richards, S., Shen, H., Sanders, C., Rodkey, T., Rojas, A., Rose, M., Rose, R., Ruis, S., Sanders, W., Savery, G., Scherer, S., Scott, G., Shatsman, S., Shen, H., Shety, J., Shvartebeyn, A., Sisson, I., Sitter, C.D., Smajs, D., Steimle, M., Strong, M., Sisson, I., Sitter, C.D., Smajs, D., Steimle, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., Strong, M., 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Direct Submission
Submitted (08-FFB-2002) Human Genome Sequencing Center, Department
Submitted (08-FFB-2002) Human Genetics, Baylor College of Medicine, One
Baylor Plaza, Houston, TX 77030, USA
3 (Dases 1 to 222035)
Rat Genome Sequencing Consortium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 * NOTE: Estimated insert size may differ from sequence length 
* (see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Web site: http://www.hgsc.bcm.tmc.edu/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ------ Genome Center
Center: Baylor College of Medicine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Unpublished
2 (bases 1 to 222035)
Worley, K.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Center code: BCM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Direct Submission
```

AUTHORS TITLE JOURNAL

REFERENCE AUTHORS JOURNAL

COMMENT

TITLE JOURNAL REFERENCE

19115 AACCTGAAAGTTCTCTTTCAGAATATACAAAGCAATTCTCTAATAAATGCAGCAAGACA 19174 19175 AAAGGGAACCTCCTTTTCACATCTGTCTTCCCCAAGGGAATTGATATGAAGGGAGGAGATA 19234 18755 CCACAGCTTCTGGGATGCTGGAGAGCCCAATAACATAGTTTTTGTGGAGGACTGTGCCAC 18814 18815 CATGAGGGACTCTTCAAACCCCAGGAAGAACTGGAATGATGTGTTCCTGTTTCTTCAGTAT 18874 18875 GCCTTGGATTTGTGAGATGCCAGAAATAAGTCCTTTGGACTAGGTGCAAGGGAACACAGA 18934 18935 AGACATGGTTTACATGCACAAGGAAGAACAAAAGTGAAGGTAACAACACCCTAAAATCCAA 18994 1076 965 AACCTGAAAGATCTCTTTTAGACTGTACAGATCAATTCTCTAACAAATGCAACAAGAAG 1024 726 GCCTTGGATTTGTGAGATGCCAGAAATAAGTCCTCAGGACTAAGTGCAAGGAAATACAAG 1025 AAAGGGATTCTCCTTTTCACATCTGTCTTGCACATCTGTCTTGCTCATGAG-----A 906 AGTAAAAAGA-CTTGTTCCCATTGCTAAAAGTCCACAGCATTGTCTGATGGTCTTGCCAT 666 CATAAGGGACTCTTCAAACTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTAT 786 GGACATGGCTTACATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAATCCAA Gaps 43; Length 222035; 7987: contig of 7987 bp in length 8087: gap of unknown length 11519: contig of 3432 bp in length 11553; contig of unknown length 175535: contig of 163916 bp in length 175635: gap of unknown length 222035: contig of 46400 bp in length. Indels 46.6%; Score 1173; DB 2; 80.5%; Pred. No. 6.5e-238; tive 0; Mismatches 335; CCTGACCTTCTGGGATGCTGGGGAGCCCAACAATATAGTT organism="Rattus norvegicus" .162152) site: MboI
end_sequence: RXALO63TJ" /mol_type="genomic DNA' /db_xref="taxon:10116" note="clone_boundary clone="CH230-310L5" /note="wgs_contig" 6646. .7987 /note="wgs_contig" 8088. .9437 /note="wgs_contig" 9488. .11519 /note="wgs_contig" 131182. .132689 /note="wgs_contig" complement(161303. . Location/Qualifiers

g

a

Š

a

ઠે

a

8

ठ व ठ

8 8 8 8

8 6 8

8 6 8 6

8 6 8 6

g

ઠે

ઠે

8 8 8 8 8

```
20474
                                                                                                                                                                                                                                                                                   2442
                                                                                                                                                                                                                                                                                                                                                                           2382
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AY363175

Rattus norvegicus macrophage-inducible C-type lectin (Clecsf9)
mRNA, complete cds.
AY363175.1 GI:38352001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /codon_start=1
/product="macrophage-inducible C-type lectin"
/protein_id="AAR18685.1"
/db_xref="G1:38352002"
/trānslation="MNSTKSPASHHTERECFKNSQVLSWTWAGASILFLSVCFITRCV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Rattus norvegicus (Norway rat)
Rattus norvegicus
Eukaryota, Metazoa, Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Box 1105
                                                                                         TTAAAGGTTCTGGATTGCATCAAAGGGCCCACAAAGAAATCACACAAACCATGTGGTTTC
                                                                    TGTCCTTGGGTTTATTTGCAAGGTTCATTACACTCCTTGACTTGTATATTTGTGACATC
                                                                                                                                         CCTCCATCTCTAGGATGAAACTGAAGTGATCATGATA-GATAACTTTTGGATCTTTTCAC
                                                                                                                                                                           20415 CCTCCATCTCTAGGATGAAGCTGATGTGACTGTGACAGGCGACCTTTTGGATGTTTCCAC
                                                                                                                                                                                                              TITICIATIGCIGIGAAACAIGACCCAAAACIATCITGGGCCGGGAAAITTIAAIT
                                                                                                                                                                                                                                                                                   TATCTTAACATAAATTTCCTATTTAGAAATTGGACAGGTGGGGAATCATCCAATTGAAAC
                                                                                                                                                                                                                                                                                                                     20535 TACCTTAACATAAATTGCCGATTCAGAAAATTGGAGATAGGGGGATCATCGAGTTGAAAC
                                                                                                                                                                                                                                                                                                                                                          2443 TCGAAAAATGTAGTGTTTTGTACATTAGGTTACAGAAAAACAACTTTAGCCACAAAAATA
2144 TAAAAGATTCTGAATTCCATCAAAGGGCACACAAAGAAATCACAAAGACCATGTGGTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 (bases 1 to 730)
Flormes L.M., Bryceson, Y.T., Spurkland, A., Lorentzen, J.C., Dissen, E. and Fossum, S. Identification of Lectin-like receptors expressed by antigen presenting cells and neutrophils and their mapping to a novel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /db_xref="taxon:10116"
/chromosome="4"
/map="4442; in antigen presenting cell lectin-like
receptor gene complex; APLEC"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OBlo,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Immunogenetics 56 (7), 506-517 (2004)
2 (bases 1 to 730)
Flornes, L.M., Dissen, E. and Fossum, S.
Direct Submission
Direct Submission
Blindern, Oslo 0317, Norway
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1. .730
/organlem="Rattus norvegicus"
/mol type="mRNA"
/strain="PVG"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /note="synonym: Mincle"
51. .698
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           l. .730
/gene="Clecsf9"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /gene="Clecsf9"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20655 GGGTAGTAAGCCAGT 20669
                                                                                                                                                                                                                                                                                                                                                                                                                                 AAGTAATAAACTATT 2517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      complex
                                                                                                                                                                                                                                                                                                                                                                                                                                 2503
                                                                                                                                                                                                                                                                                     2383
                                 20295
                                                                    2204
                                                                                                                                        2264
                                                                                                                                                                                                              2323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 7
AY363175
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 JOURNAL
REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITLE
                        g
                                                                                         8 B
                                                                                                                                                                    g
                                                                                                                                                                                               දු දු
                                                                                                                                                                                                                                                                        ራ 8
                                                                                                                                                                                                                                                                                                                                                                                  요
                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                               a
                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19997
                                       GAGACCAAGTACTGAGCAACAAGAAGACATCTGTAGAAAGAGACTTTGGATGGTCAC 19294
                                                                                                                                                                                                                                                                                                                                        19530
                                                                                                                                                                                                                                                                                                                                                                                                              19590
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19646
                                                                                                                                                                                            19414
                                                                                                                                                                                                                                                                                                                                                                           1430
                                                                                                                                                                                                                                                                                                                                                                                                                                                1490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               19765
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1668
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      19820
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           19877
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                19937
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1848
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1908
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20057
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2083
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20237
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TIGETITIATATATACTGAGATATGTCCCTGTGTCCCTAGAATCTCTAGGAGTTTTA--- 20294
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1548
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1608
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1964
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2024
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1728
                                                                                                                                                                           CTGTGTTCTCTTCTATCAACTGGATTTCACCTGTAGCTGTATCTACCGCTCAAGTAGAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCCATTAGGAACTTCAGCAGCAGTCACACATTGTAATAAACATGTATCCTTGAGTAGGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TTTCTCACAATCTGATTTTGAAATTGATAACCTTATTTTAAATACAAATATATCTTACAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AATTCACTTTTGATGAACCCATCCTTATTCTCCTCACTACAATCTGCCCCTGTTCACTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACTGTTTTTCCCTGACAATTTCATGTGCTTCTTTTGGTTTTAAACCTATTATGTCCACTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20118 AAACCACATCCCACACTCCTGTTCCAGCAGACAGAAATTACCAAGAAATTCCA
             ATTGATATGAAGGAAGAGGTAGAAAGCAGATGTCTGTATAAAGAGACTTT-AATGGTCAC
                                                                                   TATGTCATCCTGTTCTTTCTACATCCTTGGCTCTAGCTTATCTAT-----CTATCAGTAC
                                                                                                                   CATGICATCCCATTTATTCTCCATCCTTGGGACAAGCTTAGCTCCTCATGCCATTGATGC
                                                                                                                                                      ATAGATCACTTCTGTGTTCTCCAACAGTGAGGAAGATGCATCTTTGAGTCTTTAAACTTA
                                                                                                                                                                                                                               CCTGCCGCTTGGGAATGGCATGGCCTTCAGCAAGGACATCTCCATATGGAAAGGCCGG
                                                                                                                                                                                                                                                                                                    TCAAACTTCAGTTCCTAACAGATTGTGATCTAGTCCACTCTTCCTGGAGCCCCCATTTTCT
                                                                                                                                                                                                                                                                                                                                                                           CTGTGTTCTTCTTATAAACTGGATTTCACCTGTACTTGTATCTACTGCGCAAGTAGAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTGCTCAGTAGGTTCAAAGTGAAATTATTTAAAAATTCATGTTCACATTTTTCTGTCTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGAC -- TGCATTTATTGCATGATATTCTGTCAATATAGACCATGTTTCTTCCAGACAAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AATTAAACTAAATTAAATTAATTTGTCATATTAGCACTCATTACGAGCACTTCTATTAGAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITCIAACAATCIGATITIGAAATIGATAGCC---IGITAAATACAAAGAAATCITATGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CCACACATITIGACTICTCTTTTTAAAATTATTTTTGTTTGAAAATTTTTGTGCATTTATAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AATTCACTTTTAATGAACCCATCCTTACTCCTCACTACAACCTGCTCCTATCCACCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACTGATTTTCCCTCCCAATTTCATGTGCTCCTCTTTTAAACCCACTCTATCTGCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AGTGCTTCCTGAATGCACTTGAGTATAAGGCTTTCTACTGGACC----ATAGCCTCTCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CAACCACATCCCATACTCCACCTGCTCCAGCGGGAACAATAGCCAATTGACCATCTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCT-GAGGATGGATTTCATGAGCTCCATGCCATTCATGCTGGAATTTGGGTTGTTTTATG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20178 ACTGGAGGTGGAATTTCATGAGTTTCATGCCATTCATGTTGGAATTTTGGGATGTTTTCCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2084 TAACCTTTATTATATTGTGCTATCTCTTCTGTATCCCTAGAATCTCTAGGAGCTTCATAT
                                                                                                                                                                                                                                                                                                  1311
                                                                                                                                                      1191
                                                                                                                                                                                                                             1251
                                                                                                                                                                                                                                                                                                                                                                         1371
                                                                                                                                                                                                                                                                                                                                                                                                             19531
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1549
                                                19235
                                                                                                                                                                                            19355
                                                                                                                                                                                                                                                                                                                                                                                                                                                1431
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1491
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               90/61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1609
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  19766
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1669
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         19821
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1729
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19938
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1849
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              19998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20058
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1965
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2025
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   19591
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1789
```

12;

146

206 231 266 323

411 443 471 503 531 563 591 623 651 683 743 771

```
AGTITTAAATGITATAATTCATGTTACTGGCTGAAGTGCATTTTCTCTCTACGTTAGTCT 1011
            Patent: WO 02068579-
PE Corporation (NY)
                                                                                                                        Similarity
  thereof
                                                                                                                        Best Local Simi
Matches 934;
                                                                                                                                                         87
                                                                                                                                                                                                     147
                                                                                                                                                                                                                          175
                                                                                                                                                                                                                                                                     232
                                                                                                                                                                                                                                                                                                                                                            352
                                                                                                                                                                                                                                                                                                                                                                                                                              444
                                                                                                                                                                                                                                                                                                                                                                                                                                                  472
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             532
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         592
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 712
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           772
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             859
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  892
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        919
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             952
                                                                                                                                                                                                                                                207
                                                                                                                                                                                                                                                                                           267
                                                                                                                                                                                                                                                                                                                292
                                                                                                                                                                                                                                                                                                                                      324
                                                                                                                                                                                                                                                                                                                                                                                  384
                                                                                                                                                                                                                                                                                                                                                                                                        412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       832
                                                                                                               Query Match
                                              Bource
           JOURNAL
                                 FEATURES
                                                                                        ORIGIN
                                                                                                                                                          ઠે
                                                                                                                                                                          셤
                                                                                                                                                                                                   δ
                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                          ద
                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                 8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                              qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ℅
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        윰
VTYHSFQIYGQKKLQPHKTIKELSCYLEASGSVKNCCPLNWKHFQSSCYFFSTTTLSW
LSSLKNCSDMGAHLVVINTWEEQEFLFRTKPRKKFKYIGLTDQVVEGQMRWVDDTPFT
ESLSFWDAGEPNNIVFVEDCATMRDSSNPRKNWNDVSCFFSMPWICEMPEISPLD"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PAT 03-FEB-2004
                                                                             ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1
Venter, C.J., Adams, M.C., Li, P.W. and Myers, E.W.
Kits, such as nucleic acid arrays, comprising a majority of
humanexons or transcripts, for detecting expression and other uses
                                                                                                  AAGGCAGGAAAAAGGAAGAATGAATTCAACCAAATCGCCTGCATCCCACCACACAGAGAG 164
                                                                                                                                              224
                                                                                                                                                                    151
                                                                                                                                                                                         284
                                                                                                                                                                                                               211
                                                                                                                                                                                                                                                          271
                                                                                                                                                                                                                                                                                401
                                                                                                                                                                                                                                                                                                     331
                                                                                                                                                                                                                                                                                                                             461
                                                                                                                                                                                                                                                                                                                                                                        521
                                                                                                                                                                                                                                                                                                                                                                                                                    581
                                                                                                                                                                                                                                                                                                                                                                                                                                       511
                                                                                                                                                                                                                                                                                                                                                                                                                                                             641
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  571
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       701
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               631
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         691
                                                                                                                                                                                                                                    ---AGAACTTACAGCCACATAGAAATATTAAGGAGCTTTCCTGCTACAGTGAGGCATC 341
                                                                                                                                                                                                                                                                                                                                                332 TTTCTCTACAACCACCTTATCCTGGCTATCAAGTCTAAAGAATTGCTCAGACATGGGGGC 391
                                                                                                                                                                                                                                                                                                                                                                                   392 TCACCTGGTGGTTATCAACACATGGGAAGAGCAGGAATTCCTTTTTCGCACAAAACCCAG 451
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGATGCCAGAAATAAGTCCTCA 761
                                                                                                                        91
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                  TCTCAGTGGCTGTTTCATCACCAGATGTGTCGTAACATATCGCAGCTCTCAAATTTCCGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAACTCCAGGAAGAACTGGAA
                                                                                                                                                                                                                                                                                                                                                                      TCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCTTTTTCGCACAAAATCTAA
                                                                                                                                                                                                                                                                                                                                                                                                                               AGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGCCGGGGCCTCCATCCTGTT
                                                                                                                                                                                                       GCAGAAGAAGTTACAGCCACATAAAACTATTAAGGAGCTTTCCTGCTACCTTGAAGCATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                             GGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGCTGGGGAGCCCAACAATAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGTTTTGGGGGGGGCTGTGCCACCATGAGGGACTCTTCAAACCCCAGGAAGAACTGGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        reargrancergrincincagnargeerregaringragargeeagaaaraagreerrr
                                                                                                                                                           AGAATGCTTCAAAAAACTCCCAAGTGCTTTCATGGACGATGGCTGGGGCCTCCATCCTGTT
                                                                                                                                                                                                                                                                               AGGITCAGICAAGAAITGCIGICCITIGAACIGGAAACAITAICAAICIAGIIGITAITI
                                                                                                                                                                                                                                                                                                     AGGITCAGICAAGAATIGCIGCCCITIGAACIGGAAACAITITICAGICIAGIIGCIACIT
                                                                                                                                                                                                                                                                                                                                                                                                                   AAGGAAAGAGTTTTATATTTGGACTGACAGACCAGGTGGTGGAGGGTCAGTGGCAATGGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GGATGATACACCTTTCACAGAGTCCCTGAGCTTCTGGGATGCTGGAGAGCCCAATAACAT
                                                                                                                                                                                                                                                                                                                           TITCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAATTGCTCAGACATGGGGGGC
                                                                             Gaps
                                                                             ٠.
ص
                                                       730;
                                                       Length
                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGACTAAGTGCAAGGAATACAAGGGACATGGCTTACAT 800
                                                       DB 10;
                                                     Score 574.4; DB 10;
Pred. No. 4.3e-111;
0; Mismatches 69;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2144 bp DNA Sequence 3765 from Patent WO02068579. CQ717831.1 GI:42278688
                                                     Query Match
22.8%;
Best Local Similarity 89.7%;
Matches 627; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens (human)
Homo sapiens
                                                                                                                                                                                                                                    ပ္ပ်
                                                                                                                                                                                                                                                         212
                                                                                                                                                                                                                                                                                                                                                                                                                                       452
                                                                                                                                                                   92
                                                                                                                                                                                        225
                                                                                                                                                                                                                                                                                                    272
                                                                                                                                                                                                                                                                                                                                                                                                                   522
                                                                                                                                                                                                                                                                                                                                                                                                                                                             582
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        642
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               572
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     702
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         632
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                762
                                                                                                  105
                                                                                                                        32
                                                                                                                                              165
                                                                                                                                                                                                                                    285
                                                                                                                                                                                                                                                                                342
                                                                                                                                                                                                                                                                                                                           402
                                                                                                                                                                                                                                                                                                                                                                        462
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 8
CQ717831
LOCUS
                                 ORIGIN
                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                   a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                   ద
                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   용
                                                                                                  ઠે
                                                                                                                      셤
                                                                                                                                             ò
                                                                                                                                                               g
                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                    ઠે
```

```
agagagagagagagaaaaaaccaaagagagagaaaaaargaatrcarcraarrcarcras 174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         carctricadacerergangadadaderricageracergagaarricaeagagerere 351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAACATTA 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  652 AGGGGGGCCCAACAACATAGCTACCTGGAGGACTGTGCCACCATGAGAGACTCTTCAAA 711
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GCCAGAAATAAGTCCTCAGGACTAAGTGCAA----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTTCCCATTGCTAAAAGTCCACAGCATTGTCTGATGG-----TCTTGCCATAACCTG 970
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATGCATGAAGAAGAAGAGTGAATGTAATAACAACCAAAATCCAACATAAGAAAATAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGGTCAGTGGCAATGGGTGGACGGCACCCTTTGACAAAGTCTCTGAGCTTCTGGGATGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTTGTGAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACAACTCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTATCAGGCATCAGAAGGACTGCACATGTATTACTGGGACATAAGAAAAAAAGACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAGCTCTCAAA----TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        crecracaarraregarcaegricaegricaegricarricaricarricaacreegaararrir
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TCAATCTAGTTGTTATTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAACTCACAGGAGGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Trccracagaaaccraaaargagagagrrrrrrrrrrggacrgrcagaccaggrrgrcga
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AGAGAAGGAAAAGGAAGAAAGGCAGGAAAAAGGAAGAATTGAATTCAACCAAATCGCCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTGGACTGACAGACCAGGTGGTGGA
                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                         73;
                                                                                                                                                                                                                                                                     Length 2144;
                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                  18.3%; Score 461.4; DB 6;
llarity 63.4%; Pred. No. 3.1e-87;
Conservative 0; Mismatches 466;
WO 02068579-A 3765 06-SEP-2002;
gration (NY) (US)

    2144
    /organism="Homo sapiens"
    /mol_type="unassigned DNA"
    /db_xref="taxon:9606"

                                                          Location/Qualifiers
```

Mon

a ઠ

ò

ઠે g ઠે 요 ò 요 δ 셤 ઠે ద ઠે g ઠે

```
E. Muzny, D. Marie., Metzker, M. Lee., Abramzon, S., Adams, C., Alder, J., Allen, C., Allen, H., Albbrooks, S., Amin, A., Anguiano, D., Allen, C., Allen, H., Abbrooks, S., Amin, A., Anguiano, D., Anyalebech, V., Aoyagi, A., Ayodeji, M., Baca, B., Baden, H., Baldwin, D., Bandaranaike, D., Barber, M., Barnstead, M., Benahmed, F., Biswalo, K., Blair, J., Blankenburg, K., Blyth, P., Brown, M., Bryant, N., Buhay, C., Blankenburg, K., Blyth, P., Brown, M., Bryant, N., Carter, K., Cavazos, I., Ceasar, H., Center, A., Chacko, J., Chacko, J., Chacko, J., Chacko, J., Chacko, J., Chan, R., Chen, R., Chen, R., Chen, R., Chen, R., Chen, R., Chen, R., Chen, R., Chen, R., Chen, R., Chen, R., Chen, R., Chen, C., Cockerll, R., Cox, C., Coyle, M., Cree, A., D'Souza, L., Dayola, M. L., Davis, C., Davy-Carroll, L., De Anda, C., Dederich, D., Draper, H., Dugan-Rocha, S., Deramo, C., Ding, Y., Dinh, H., Divya, K., Bgan, A., Escotto, M., Eugene, C., Evans, C.A., Falls, T., Fan, G., Fersaer, C.M., Gabisi, A., Ganta, R., Garcia, A., Garner, T., Garza, M., Gebregoorgis, E., Geer, K., Galli, R., Garcia, A., Garner, T., Garza, M., Gunaratne, P., Haaland, W., Hamil, C., Hamilton, C., Hamilton, K.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      246843 bp DNA linear HTG 15-NOV-2002
Rattus norvegicus clone CH230-97B16, *** SEQUENCING IN PROGRESS
***, 5 unordered pieces.
                                        1091 AGAGGTAGAAAGCAGATGTCTGTATAAAGAGACTTTAAT----GGTCACTATGTCATCT 1146
                                                                                                                                                                                                                                                                                                                                                                                                                           1129 AGGGGATTTTGGAAGGTGCCTTCCAAAATCTCCTGAATCCGGCTCTGTAGCAGGTCCT 1188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1147 GTTCTTTCTACATCCTTGGCTCTAGCTTATCTATCTATCAGTACATAGATCACTTCTGTG 1206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1189 CTTCTTTCTAGCTTCTGACAAGTCTGTCTTCTTGGTTTCATACCGTTCTTATCTC 1248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1249 CrGCCCAAGCATATATCGTCTCTTTACTCCCCTGTATAATGAGTAAGAAGCTTCTTCAAG 1308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1239 TCTTTAAACTTACCTGCCGCTTGGGAGAATGGCATGGCCTT--------CAGCAAG 1286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1309 rcargaaactra-riccrecreaaaraccesrereeccrrreecracaeecrecac 1367
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1287 GACATCTCCATATGGAAAGGCCGGTCAAACTTCAGTTCCTAACAGATTGTGATCTAGTCC 1346
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1368 TGCACCTTCTTAGGGAAAGGCATGCCATCAGCTCCAAACAACGCTGTAACCAAGTCC 1427
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1347 ACTC-TTCCTGGAGCCCCATTTTCTCTGTGTTCTCTTCTATAAAC----TCGATTTCACC 1401
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1428 ACCCATCCCTGGGGCTTCCTTTGCTCTGCCTTATTTTCAATTGACTGAATGGATCTCACC 1487
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1402 TGTACTTGTATCTACTGCGCAAGTAGAACCTGCTCAGTAGGTTCAAAGTGAAATTATTTA 1461
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1488 AGATTTTGTATCTATTGCTCAGCTAGGACCCGAGTCCAATAGTCAAT-TTATTCTAAGCG 1546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae,
971 AAAGATCTCTTTTTAGACTGTACAGATCAATTCTCTAACAAATGCAACAAGAAGAAAAGGG
                                                                                                                                                                 ATTCTCCCTTTTCACATCTGTCTTGCACATCTGTCTTGCTCATGAGAATTGATATGAAGGA
                                                                                                                                                                                                                                                      1069 ATTTTTTAGTGTTCGTATGAAAGTACAGGGACACGGAGGCCAAGACAGAGTCTAGCAAAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     HTG; HTGS PHASE1; HTGS_DRAFT; HTGS_ENRICHED.
Rattus norvegicus (Norway rat)
Rattus norvegicus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1462 AAAATTCATGTTCACATTTTTCTGTCTCAGGAC 1494
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AC113782.6 GI:25006612
                                                                                                                                                                 1031
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AC113782
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 9
```

```
AL SUDMILLEAULUM CARRELES, BAYLOR COLLEGE OF MEDICINE, DEPARTMENT OF MOLECULAR and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA
ON NOV 15, 2002 this sequence version replaced gi:23267207.
The sequence in this assembly is a combination of BAC based reads and whole genome shorgun sequencing reads assembled using Atlas (http://www.hgsc.bcm.fum.edu/projects/rat/). Each config described in the feature table below represents a scaffold in the Atlas assembly (a 'contig-scaffold'). Within each contig-scaffold, individual sequence contigs are ordered and oriented, and separated by sized gaps filled with Ns to the estimated size. The sequence may extend beyond the ends of the clone and there may be sequence contigs within a contig-scaffold that consist entirely of whole genome shorgun sequence reads. Both end sequences and whole genome shorgun sequence reads. Both end sequences and whole genome shorgun sequence only contigs will be indicated in the feature
Harvey, Y., Havlak, P., Hawes, A., Henderson, N., Hernandez, J., Harnandez, R., Hines, S., Hladun, S.L., Hodgson, A., Hollins, B., Howells, S., Hladun, S.L., Hodgson, A., Hollins, B., Howells, S., Hullyk, S., Hume, J., Idlebird, D. Jackson, L., Jackson, L., Jackson, E., Johnson, R., Johnson, R., Johnson, R., Johnson, R., Johnson, R., Johnson, R., Johnson, R., Johnson, R., Karpathy, S., Kelly, S., Khan, Z., King, L., Kovar, C., Kwais, C., L., Lebow, H., Levan, J., Lewis, L., Liu, J., Liu, M., Liu, M., Loulseged, H., Lozado, R.J., Lu, X., Ma, J., Marchar, M., Manindartne, M., Mahindartne, M., Malloy, K., Martinez, E., Marched, M., Martinez, E., Marched, M., Martinez, E., Marchar, M., Marcha, M., Marchi, K., Martinez, E., Milosavijevic, A., Miner, G., Minja, E., Mortemay, O., Johnson, R., Marchar, S., Muldasa, M., Murphy, M., Nair, L., Neachernis, C., Neal, D., Newton, N., Nguyen, N., Norris, S., Nair, D., Newton, N., Nguyen, N., Norris, S., Nair, D., Newton, N., Nguyen, N., Norris, S., Nair, D., Newton, N., Nguyen, N., Norris, S., Nair, D., Newton, N., Nguyen, N., Reilly, R., Reilly, M., Ren, Y., Reuter, M., Richards, S., Riggs, F., Plopper, F., Poindexter, A., Popovic, D., Primus, E., Pul, L.-L., Puzo, M., Quiroz, J., Rachlin, E., Reeves, K., Regler, M., Savery, G., Scherer, S., Scott, G., Shatsman, S., Shen, H., Shetty, J., Shvattsbeyn, A., Sisson, I., Sitter, C.D., Smais, D., Stefalle, M., Strong, R., Yakub, S., Yatek, A., Tabor, P., Taylor, C., Taylor, T., Thomas, N., Thomas, N., Thomas, N., Thomas, N., Thomas, N., Thomas, N., Thomas, N., Thomas, N., Thomas, N., Thomas, N., Thomas, N., Thomas, N., Wairen, W., Wairen, W., Wairen, W., Wairen, W., Wairen, W., Wairen, S., Wairen, J., Wairen, S., Warren, J., Wairen, S., Warren, J., Wairen, S., Warren, J., Wairen, S., Warren, J., Wairen, S., Wairen, W., Wairen, S., Wairen, W., Wairen, S., Wairen, W., Wairen, S., Wairen, W., Wairen, S., Wairen, W., Wairen, S., Wairen, W., Wairen, S., Wairen, W., Wairen, W., Wairen, S., Wairen, W., Wairen, W., Wairen, W., Wairen, W.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Upublishes to 246843)

2 (bases 1 to 246843)

Worley, K.C.

Direct Submission

Of Molecular and Human Genome Sequencing Center, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030, USA

3 (bases 1 to 246843)

Bat Genome Sequencing Consortium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Center project name: GSGL
Center clone name: CH230-97B16
Center clone name: CH230-97B16
Assembly program: Phrap; version 0.990329
Consensus quality: 214283 bases at least Q40
Consensus quality: 217684 bases at least Q30
Consensus quality: 220184 bases at least Q30
Estimated insert size: 222530; sum-of-contigs estimation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Web site: http://www.hgsc.bcm.tmc.edu/
Contact: hgsc-help@bcm.tmc.edu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Center: Baylor College of Medicine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Center code: BCM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      JOURNAL
REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE
JOURNAL
```

COMMENT

```
33426
                                                                                         33486
                                                                                                                                                                33546
                                                                                                                                                                                                                                                                                             PAT 23-JAN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGTTGTCCATTGAACTGGGAATATTT 411
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCAATCTAGTTGTTATTTTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA 443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Euteleostomi;
 TGTATATATTGTGACATCCCTCCATCTCTAGGATGAAACTGAAGTGATCATGATA-GATA
                                                                              33487 CCTTTTGGATGTTTCCACTTTTCTATTGCTGTGATGACACATAGGCCAAAAGAAGCTTGG
                                                                                                                                                                                                                                                                         GAATCATCCAATTGAAACTCGAAAAATGTAGTGTTTTGTACATTAGGTTACAGAAAAACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CATCTTTCAAACCTGTGATGAGAAAAGTTTCAGCTACCTGAGAATTTCACAGAGCTCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA
                                                                                                                               ACTITIGGATCTITICACTTTTCTATIGCTGTGATGAAACATGACCAAAACTATCTTGG
                                                                                                                                                                                                    GCCGGGAAAATTTTAATTTATCTTAACATAAATTTCCTATTTAGAAATTGGACAGGTGGG
                                                                                                                                                                                                                                     33547 GCAGGGBAAGTTTATTTTACCTTAACATAAATTGCCGATTCAGAAAATTGGAGATAGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATCCCACCACACAGAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACCAGATGTGTCGTAACATATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CAGCTCTCAAA----TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Lee,J. and Lillie,J.
Genes, compositions, kits, and method for identification,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 2143;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         assessment, prevention, and therapy of ovarian cancer Patent: WO 0170979-A 21733 27-SEP-2001; Millennium Pharmaceuticals, Inc. (US)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; E
Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       18.1%; Score 456.2; DB 6; 62.3%; Pred. No. 3.9e-86; ative 0; Mismatches 488;
                                                                                                                                                                                                                                                                                                                                                                    33667 ACTITAGTCACAAAAATAGGGTAGTAAGCCAGT 33699
                                                                                                                                                                                                                                                                                                                                                2517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CQ414662 21733 from Patent WO0170979.
CQ414662
                                                                                                                                                                                                                                                                                                                                                ACTITAGCCACAAAATAAAGTAATAAACTATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CQ414662.1 GI:41322443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            915; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Genes,
                                                      2246
                                                                                       33427
                                                                                                                               2305
                                                                                                                                                                                                                                                                         2425
                                                                                                                                                                                                                                                                                                                                                2485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          352
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          207
                    33367
                                                                                                                                                                                                    2365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   292
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AUTHORS
TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                         CQ414662
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORIGIN
                                          ઠે
                                                                                  g
                                                                                                                           ò
                                                                                                                                                       요
                                                                                                                                                                                              δ
                                                                                                                                                                                                                                ద
                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                            요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              33009
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   33129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            33069
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        33189
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             33249
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   33309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        33310 TCTCTAGGAGTTTTA---TTAAAGGTTCTGGATTGCATCAAAGGGCCCACAAAGAAATCA 33366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             4,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1830
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2065
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1950
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAAAGACCATGTGGTTTCTGTCCTTGGGTTTATTTGCAAGGTTCATTACACTCCTTGACT 2245
                               NOTE: Estimated insert size may differ from sequence length (see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html).
NOTE: This is a 'working draft' sequence It currently consists of 5 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown. This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.
Quality coverage: 6x in Q20 bases; sum-of-contigs estimation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CC----ATAGCCTCTCGGCAACCACATCCCATACTCCACCTGCTCCAGCAGGAACAATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           33130 ACATAGATAGCGTCTCAGAAACCACATCCCACACTCCTGTTCCAGCAGCAGAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2007 GCCAATTGACCATCTTCAGCT-GAGGATGTATCATGAGCTCCATGCCATTCATGCTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AATTIGGGITGITIAIGIAACCITIAITAITAIGIGCIAICICICICIGIAICCCCIAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1711 TACAAATATATCTTACAACCACACTTTGACTTCTCTTTTTAAAATTATTTTTGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1771 AATTTTGTGCATTTATATAATTCACTTTTAATGAACCCATCCTTACTCTCCTCACTACAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1831 CCTGCTCTATCCACCTCACTGATTTTCCCTCCCAATTTCATGTGCTCCTCTTTGTTTTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1891 AACCCACTCTATCTGCTCCAGTGCTTCCTGAATGCACTTGAGTATAAGGCTTTCTACTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          33190 accaacricaraarcricaacricgaceregaarrircareacrircarecerricares
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TCTCTAGGAGCTTCATATTAAAAGATTCTGAATTCCATCAAAGGCCACACAAAGAAATCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9; Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 246843;
                                                                                                                                                                                                             32891: contig of 32891 bp in length 32991: gap of unknown length 241925: contig of 208934 bp in length 242025: gap of unknown length 243103: contig of 1278 bp in length 243403: gap of unknown length 24454: contig of 1051 bp in length 24454: gap of unknown length 24654: gap of unknown length 24654: contig of 2289 bp in length.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indele
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 18.1%; Score 456.6; DB 2; Best Local Similarity 71.3%; Pred. No. 2e-86; Matches 580; Conservative 0; Mismatches 224;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pred. No. 2e-86;
0; Mismatches 224;
                                                                                                                                                                                                                                                                                                                                                                                                 1. .246843
/organism="Rattus norvegicus"
/mol_type="genomic DNA"
/db_xref="taxon:10116"
/clone="CH230-97B16"
2703. .3548
/note="clone_boundary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              end_sequence:BH279502"
32992. .34174
/note="wgs_contig"
                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              clone_end:T7
                                                                                                                                                                                                                        32892
32892
32992
241926
243304
243404
24455
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2066
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1951
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2126
                                                                                                                                                                                                                                                                                                                                                                                                    Bource
                                                                                                                                                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ORIGIN
```

ò 셤 ઠે 요 ò 名 ઠે 셤 ઠે 윱 ò ద ò d ò 셤 ò

ô

```
/codon_start=1
/product="macrophage C-type lectin Mincle"
/protein_id="BaA8375:1"
/db_xref="GI:SB21288"
/translation="MNSSKSETQCTERGCFSSQMFLWTVAGIPILFLSACFITRCVV
TFR.FCQTCDEKKFQLPENFTELSCYNYGSGSVKNCCPLNWBYFQSSCYFFSTDTISWA
LSLKNCSAMGAHLVVINSQEEQEFLSYKKPKWAREFFIGLSDQVVEGQWQWVDGTPLTK
SLSFWDVGEPNNIATLEDCATMRDSSNPRQNWNDVTCFLNYFRICEMVGINPLNKGKS
L"
       1491 TTTGTATCTATTGCTCAGCTAGGACCCGAGTCCAATAGTCAATTT-ATTCTAAGCGAACA 1549
                                                                                                                                                              PRI 10-NOV-1999
                                                                                                                                                                                                                                                                                                                                                     Matsumoto, M., Tanaka, T., Kaisho, T., Sanjo, H., Copeland, N.G., Gibbert, D.J., Jenkins, N.A. and Akira, S. A novel LPS-inducible C-type lectin is a transcriptional target of NF-ILG in macrophages
                                                                                                                                                                                                                                                                                                  Eukaryota; Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Akira.S. and Matsumoto,M.
Direct Submission
Submission
Submitted (09-WAR-1999) Shizuo Akira, Osaka University, Departme
of Host Defense, Research Institute for Microbial Diseases; 3-1
Yamada-oka, Sulta, Osaka 565-0871, Japan
(E-mail:sAkira@biken.osaka-u.ac.jp, Tel:81-6-6879-8303,
Pax:81-6-6879-8305)
                                                                                                                                                                               Homo sapiens mRNA for macrophage C-type lectin Mincle, complete
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATCACCAGATGTGTTGTGACATTTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGAGAGAGAGAAAAAAACCAAAGAGAGAGAAAAAATGAATTCATCTAAATCATCTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 147 ATCCCACCACACAGAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCCTGGACGATAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AACACAATGCACAGAGAGATGCTTC---TCTTCCCAAATGTTCTTATGGACTGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACCAGATGTGTCGTAACATATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 2143;
                                                                                                                                                             linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IndelB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18.1%; Score 456.2; DB 9;
.larity 62.3%; Pred. No. 3.9e-86;
Conservative 0; Mismatches 488;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /organism="Homo sapiens"
/mol_type="mRNR"
/db_xref="taxon:9606"
/coll_line="THP-1"
/coll_type="Monocytic leukemia"
                                                                                                                                                                                                                                                Mincle; macrophage C-type lectin Mincle.
Homo sapiens (human)
Homo sapiens
                                                                                                                                                              mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                          J. Immunol. 163 (9), 5039-5048 (1999)
                                                             1550 TTCATCTCCACACTTTCCTGTCTCAAGCC 1578
                                         1466 TTCATGTTCACATTTTTCTGTCTCAGGAC
                                                                                                                                                              2143 bp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               152. .811
/gene="Mincle"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gene="Mincle"
                                                                                                                                                                                                                               AB024718.1 GI:5821287
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (bases 1 to 2143)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Local Similarity
nes 915; Conserv
                                                                                                                                                                                                                                                                                                                                      (sites)
                                                                                                                                                                                                                 AB024718
                                                                                                                                                             AB024718
                                                                                                                                                                                                                                                                                                                                                                                                                                            99458965
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10528209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        232
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                         RESULT 11
AB024718
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         source
                                                                                                                                                                                                                                                                                  ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                              PUBMED
REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gene
                                                                                                                                                                                                               ACCESSION
                                                                                                                                                                                                                              VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                   REFERENCE
                                                                                                                                                                                                                                                                                                                                                       AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                           JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                                                                                                                         TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORIGIN
                                                                        유
       유
                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        971 AAAGATCTCTTTTTAGACTGTACAGATCAATTCTCTAACAAATGCAACAAGAAGAAGAAGGG 1030
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1031 ATTCTCCTTTTCACATCTGTCTTGCACATCTGTCTTGCTCATGAGAATTGATATGAAGGA 1090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1072 TTTAGTGTTCGTATGAAAGTACAGGGACACGGAGGCCAAGACAGAGTCTAGCAAAGAAGGG 1131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1091 AGAGGTAGAAAGCAGATGTCTGTATAAAGAGACTTTAATGGTCACTATGTCATCCTGTTC 1150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITCTACATCCTTGGCTCTAGCTTATCTATCTATCAGTACATAGATCACTTCTGTGTTCT 1210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TITCIAGCITCTGACAAGTCTGTCTTCTTGGTTTCATACCGTTCTTATCTACGC 1251
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1243 TAAACTTACCTGCCGCTTGGGAGAATGGCATGGCCTT------CAGCAAGGACA 1290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1312 GAAACTTA-TICCIGCICAGAATACCGGIGIGGCCTITICIGGCIACAGGCCICCACIGCA 1370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TCTCCATATGGAAAGGCCGGTCAAACTTCAGTTCCTAACAGATTGTGATCTAGTCCACTC 1350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1371 ccfrcrrhaddahadddandcchacchtchachchaddaddchahacchadrchacci 1430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1351 -TICCIGGAGCCCCATITICICIGIGITCTCTTCTATAAAC----IGGATTICACCTGTA 1405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTTGTATCTACTGCGCAAGTAGAACCTGCTCAGTAGGTTCAAAGTGAAATTATTTAAAAA 1465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   918
                                                         503
                                                                                          531
                                                                                                                            563
                                                                                                                                                             591
                                                                                                                                                                                                 623
                                                                                                                                                                                                                                 651
                                                                                                                                                                                                                                                                    683
                                                                                                                                                                                                                                                                                    652 AGGGGAGCCCAACAACATAGCTACCCTGGAGGACTGTGCCACCATGAGAGACTCTTCAAA 711
                                                                                                                                                                                                                                                                                                                                      743
                                                                                                                                                                                                                                                                                                                                                                                                         GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAAATCCAACATAAGAAAATAT 858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     951
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     919 GTTCCCATTGCTAAAAGTCCACAGCATTGTCTGATGG-----TCTTGCCATAACCTG 970
                                                                                                                                                                                                                                                                                                                                                                     cccaaggcaaaarrggaargaaccrgrrrccrcaararrrrcggarrrgrgaaar 771
                                                                                                                                                                                                                                                                                                                                                                                                                                            772 GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACAAGTCAA 831
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGGCAGGAATTCCT
                                                                             CTGCTCAGCCATGGGGGCTCACCTGGTGTTATCAACTCACAGGAGGAGCAGGAATTCCT
                                                                                                                          TTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTGGACTGACAGACCAGGTGGA
                                                                                                                                                         Trccracaagaaccraaaargagagacrirrrrrrrrrarrgaacricagaccaggrigicga
                                                                                                                                                                                               GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                                                                                                                                                                               GGGTCAGTGGCAATGGGTGGACGCCACACTTTGACAAAGTCTTGAGCTTCTGGGATGT
                                                                                                                                                                                                                                                              TGGGGAGCCCAACAATATAGTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                     CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 859 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAGACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GATTTTGGAAGGTGCCTTCCAAAATCTCCTGAATCCGGGCTCTGTAGCAGGTCCTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCA-----CACAGTGAGGAAGATGCATCTTTGAGTCTT
                                                                                                                                                                                                                                                                                                                                                                     712
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1291
                                                       444
                                                                                      472
                                                                                                                                                             532
                                                                                                                                                                                                                               592
                                                                                                                                                                                                                                                                                                                                                                                                         744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1406
                                                                                                                          504
                                                                                                                                                                                                                                                                  624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1012
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1132
                                                                                                                                                                                                                                                                                                                                     684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1211
                                                                                                                                                                                               564
                                                    ò
                                                                               g
                                                                                                              ે
                                                                                                                                                  음 상
                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                              6 B 6
                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                      8 6 6 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8 8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8 6 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ∂
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8 6 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
```

ů,

Gaps

146 174 206

231

266

```
Strausberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G.,
Klausner, R.D., Collins, F.S., Wagner, L., Shenmen, C.M., Schuler, G.D.,
Klausner, R.D., Collins, F.S., Wagner, L., Schaefer, C.F., Bhat, N.K.,
Altschul, S.F., Zeeberg, B., Bute, T., Wans, S.I., Wang, J., Heieh, F.,
Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L.,
Stapleton, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L.,
Scheetz, T.E., Brownstein, M.J., Usdin, T.B., Toshiyuki, S.,
Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J.,
McKernan, K.J., Malek, J.A., Gunaratrae, P.H., Richarde, S.,
Worley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W.,
Villalon, D.K., Muzny, D.M., Sodergren, E.J., Lu, X., Gibbs, R.A.,
Fahey, J., Helton, B., Ketteman, M., Madan, A., Rodrigues, S.,
Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y.,
Butterfield, Y.S., Krzywinski, M.I., Skalleka, U., Smailus, D.E.,
Schnerch, A., Schein, J.E., Jones, S.J. and Marza, M.A.,
Generation and initial analysis of more than 15,000 full-length
                                                                                                                                                                                         1491 TTTGTATCTATTGCTCAGCTAGGACCCGAGTCCAATAGTCAATTT-ATTCTAAGCGAACA 1549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Clone distribution: MGC clone distribution information can be found
                                                                                                                                                                                                                                                                                                                                                                                   PRI 29-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 927)
                                                                                                                                                                                                                                                                                                                                                               BCU00715

Homo sapiens C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 9, mRNA (cDNA clone MGC:1246 HAGE:3507103), complete cds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Direct Submission
Submitted (15-NO-2000) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
CCTTCTTAGGGAAGGGCATGCCAGCCATCAGCTCCAAACAGGCTGTAACCAAGTCCACCC
                                                                                                         1431 ATCCCTGGGGCTTCCTTTGCTCTGCCTTATTTTCAATTGACTGAATGGATCTCACCAGAT
                                                                                                                                                  CTTGTATCTACTGCGCAAGTAGAACCTGCTCAGTAGGTTCAAAGTGAAATTATTTAAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                contact: amadan@systemsbiology.org
Anup Madan, Jessica Fahey, Erin Helton, Mark Ketteman, Anurac
Madan, Stephanie Rodrigues, Amy Sanchez and Michelle Whiting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NIH-MGC Project URL: http://mgc.nci.nih.gov
On Aug 19, 2003 this sequence version replaced gi:12653848.
Contact: MGC help desk.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: DCTD/DTP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CDNA Library Preparation: Rubin Laboratory CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Institute for Systems Biology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              human and mouse cDNA sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
                                                                                                                                                                                                                                                                             TICATCICCACACITICCIGICICAAGCC 1578
                                                                                                                                                                                                                                    TTCATGTTCACATTTTTCTGTCTCAGGAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             http://www.systemsbiology.org
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BC000715.2 GI:33875777
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens (human)
Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (bases 1 to 927)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Strausberg, R.
                         1371
                                                                                                                                                  1406
                                                                                                                                                                                                                                    1466
                                                                  1351
                                                                                                                                                                                                                                                                             1550
                                                                                                                                                                                                                                                                                                                                       RESULT 12
BC000715
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REMARK
COMMENT
                                                     ઠે
                                                                                                   셤
                                                                                                                                                  ઠે
                                                                                                                                                                                   셤
                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             971 AAAGATCTCTTTTTAGACTGTACAGATCAATTCTCTTAACAAATGCAACAAGAAGAAAGGG 1030
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1071
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1031 ATTCTCCTTTTCACATCTGTCTTGCACATCTGTCTTGCTCATGAGAATTGAAGGA 1090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1091 AGAGGTAGAAAGCAGATGTCTGTATAAAGAGACTTTAATGGTCACTATGTCATCCTGTTC 1150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITCTACATCCTTGGCTCTAGCTTATCTATCTATCAGTACATAGATCACTTCTGTGTTCT 1210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1312 GAAACTTA-Trectrecteagaaraccegreregecerrreregecracagecerecacreca 1370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1291 TCTCCATATGGAAAGGCCGGTCAAACTTCAGTTCCTAACAGATTGTGATCTAGTCCACTC 1350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1192 Triciagerrereaerererererererererererandererererererererererererer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      952 AGTTTTAAATGTTATAATTCATGTTACTGGCTGAAGTGCATTTTCTCTCTTACTTTAGTCT 1011
        323
                                                                                                                                                                        443
                                                                                                                                                                                                               471
                                                                                                                                                                                                                                                        503
                                                                                                                                                                                                                                                                                                 531
                                                                                                                                                                                                                                                                                                                                          563
                                                                                                                                                                                                                                                                                                                                                                                   591
                                                                                                                                                                                                                                                                                                                                                                                                                         623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  711
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                771
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  831
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    951
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             919 GTTCCCATTGCTAAAAGTCCACAGCATTGTCTGATGG------TCTTGCCATAACCTG 970
                                                                                                                                                                                                                                                                                                                                                                                                                                                                651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACACTCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        652 AGGGGAGCCCAACAACATAGCTACCCTGGAGGACTGTGCCACCATGAGAGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA
                                                                                                         GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                712 cccaagccaaarticgaatgatgaaccicititiccicaatratticggatiticigaaat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAATTCCAACATAAGAAAATAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1012 CAGGTCCTCCCAGAATTTACAAAGCAATTCATACCTTTTGCTACATTTGCCTCATTT
                                           CATCTTTCAAACCTGTGATGAAAAAGTTTTCAGCTACCTGAGAATTTCACAGAGCTCTC
                                                                                                                                                                   TCAATCTAGTTGTTATTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA
                                                                                                                                                                                                                                                        444 TIGCICAGACAIGGGGGCICACCIGGIGGIIAICGACACACAGGAAGAGCAGGAAIICCI
                                                                                                                                                                                                                                                                           472 CTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAACTCACAGGAGGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                       TTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTTGGACTGACAGACCAGGTGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           859 CTATCAGGCATCAGAAGGACTGCACATGTATTACTGGGACATAAGTAAAAAGACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GATTTTGGAAGGTGCCTTCCAAAATCTCCTGAATCCCGGGCTCTGTAGCAGGTCCTCTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCA----ACAGTGAGGAAGATGCATCTTTGAGTCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ---CAGCAAGGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1243 TAAACTTACCTGCCGCTTGGGAGAATGGCATGGCCTT----
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1151
                                             292
                                                                                                                                                                                                                                                                                                                                                                                                                       564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  772
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1211
                                                                                      324
                                                                                                                             352
                                                                                                                                                                      384
                                                                                                                                                                                                                                                                                                                                       504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       $ g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   요 수 명
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6 6 6 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ሪ ይ
                                    임
                                                                                 Š
                                                                                                                  g
                                                                                                                                                           ઠે
                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                   δ
                                                                                                                                                                                                                                                                               8 8
                                                                                                                                                                                                                                                                                                                                                                    음 &
음
                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
```

```
GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                 GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACAACTCAA 763
                                                                                                                                                                                                     ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAATCCAACATAAGAAAATAT 858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                              AGAGAGAGAGAAACAAAAACCAAAGAGAGAGAAAAAATGAATTCATCTAAATCATCTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             207 ceeeeccrccarccrerrcrcaseererrcarcaccagarererana
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGGGATCCCCATCCTATTTCTCAGGCCTGTTTCATCACCAGATGTGTTTTTTTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGTTGTCCATTGAACTGGGAATATTT
                    AGGGGAGCCCAACAACATAGCTACCCTGGAGGACTGTGCCACCATGAGAGACTCTTCAAA
                                                          CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  147 ATCCCACCACACAGAGAGAGGGTGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CAGCTCTCAAA----TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        carcirricaaaccreigargaaaaagriricagcraccigagaarricacagaecreic
                                                                                          cccaaggcaaarriggaargargraaccrgririccrcaarrarrricggarrigrgaar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Lal,P., Yue,H., Tang,Y.T., Bandman,O., Burford,N., Azimzai,Y., Baughn,M.R., Lu,D.A. and Patterson,C.
Membrane associated proteins
Patent: WO 011262-4 40 22-FEB-2001;
Incyte Genomics, Inc. (US)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TCAATCTAGTTGTTATTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA
                                                                                                                                                                                                                                                                            859 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, E
Mammalia, Eutheria, Primates, Catarrhini, Hominidae,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 968;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 441; DB 6; Length 96
Pred. No. 6.8e-83;
0; Mismatches 215; Indels
                                                                                                                                                                                                                                                                                                                                                                                                        linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /note="Incyte ID No: 1521513CB1"
                                                                                                                                                                                                                                                                                                                                                                                                        DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /mol_type="unassigned DNA" /db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                       AX083498 968 bp
Sequence 40 from Patent WO0112662.
AX083498
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1. .968
/organism="Homo sapiens"
/organism==="massioned DN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                           AX083498.1 GI:13185308
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local Similarity 73.0%;
Matches 611; Conservative C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      125
                                                                                                                                                                                                     199
                                                                                                                             744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  87
                                                          684
                                                                                            644
                                                                                                                                                                 704
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     422
                                                                                                                                                                                                                                                                                                                                                                                                                                      ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bource
                                                                                                                                                                                                                                                                                                                                                                                                       LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                   RESULT 13
AX083498
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORIGIN
                                                                                                                                                             g
                      8 8
                                                                                  ብ ራ
                                                                                                                                                                                                                                 a
                                                                                                                                                                                                                                                                                                          a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ద
                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                       /translation="MNSSKSSETQCTERGCFSSQMFLWTVAGIPILFLSACFITRCVV TRETEQTOBEKEQLENTFLSCTWYGSSVKROCFLWBFPGSSCYRFSTDTISMA LSTENGCSAMGAHLVYINSQEEFLSYKPRKREFFTGLSDQVRGQQWQMCTPLTK SLENGCSAMGAHLVYINSQEEFLSYKKPKRREFFTGLSDQVRGQQWQMCTPLTK SLSFWDVGEPNNIATLEDCATWRDSSNPRQNWNDVTCFLNYFRICEMVGINPLNKGKS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     283
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         463
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        624 TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA 683
through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov
Series: IRAL Plate: 7 Row: 1 Column: 14
This clone was selected for full length sequencing because it
passed the following selection criteria: matched mRNA gi: 7657332.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGAGAAGGAAAAAGGAAGAAAAAGGAAAAAAGGAAGAATGAATTCAACCAAATCGCCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AGAGAGAGAGAAAAAAAACCAAAGAGAGAGAAAAAAATGAATTCATCTAAATCATCTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATCCCACCACACAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AACACAATGCACAGAGAGAGGATGCTTC---TCTTCCCAAATGTTCTTATGGACTGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACCAGATGTGTGTAACATATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              164 TGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATCACCAGATGTGTTGTGACATTTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CAGCTCTCAAA---TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   carctricaaaccrereasaaaaaaaarrrcaecraccreasaarrrcacaeaecrere
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTGCTACAGTGAGGCATCAGGTTCAGGAATTGCTGTCCTTTGAACTGGAAACATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGTTGTCCATTGAACTGGGAATATTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCAATCTAGTTGTTATTTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                rcaarccagcracricrirricracrgacaccarrrcrigggggggggarargargaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAACTCACCAGGAGGAGGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTGGACTGACAGACCAGGTGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TTCCTACAAGAAACCTAAAATGAGAGAGTTTTTTATTGGACTGTCAGACCAGGTTGTCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GGGTCAGTGGCAATGGGTGGACGCACACCTTTGACAAAAGTCTCTGAGCTTCTGGGATGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
                                                                                                                                                                            tissue type="Kidney, renal cell adenocarcinoma"/clone lib="NIH MGC_14"
/lab_host="DH10B-R"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11;
                                                                                                                                                                                                                                                                                                                                                                                      ۳
                                                                                                                                                                                                                                                                                                                                                                                      superfamily member
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 927;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 441; DB 9; Length 92'
Pred. No. 6.8e-83;
0; Mismatches 215; Indels
                                                                                                                            mol_type="mRNA"
db_xref="taxon:9606"
clone="MGC:1246 IMAGE:3507103"
                                                                                                                                                                                                                                                                                                                                                                                    /product="C-type lectin,
/protein_id="AAH00715.1"
/db_xref="GI:12653849"
/db_xref="LocusID:26253"
                                                                                                                                                                                                                                                                                                              db_xref="LocusID:26253"
                                                                                                              organism="Homo sapiens"
                                                                                                                                                                                                                                                                                           note="synonym: MINCLE"
                                                                                                                                                                                                                                         'note="Vector: pOTB7"
                                                                           Location/Qualifiers
                                                                                                                                                                                                                                                                       gene="CLECSF9"
                                                                                                                                                                                                                                                                                                                                                'gene="CLECSF9"
                                                                                                                                                                                                                                                                                                                                                                     codon_start=1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       17.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      al Similarity 73.0
611; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local S:
Matches 611
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 47
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           284
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                344
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             504
                                                                                             source
                                                                                                                                                                                                                                                          gene
                                                                                                                                                                                                                                                                                                                               CDS
                                                                           FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ∂
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
```

Э. 146 184

Gape

11;

206 241 266 301 323

361

421

443

PAT 28-FEB-2001

셤

8 6

8 8

\$ B \$

원 상

셤 õ 셤 ò 셤

```
acide
                                                                                                                                                                                                                                                                                                                                                                                                                                           ë
                                                                                                                                                                         C12N5/10,
PC
C12P21/02//C12P21/08,(C12P21/02,C12R1:19),(C12P21/02,C12R1:91), PC
(C12P21/02,C12R1:645),C12N15/00,C12N5/00
CC Secreted and transmembrane polypeptides and nucleic CC acide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              323
                                                                                                                                                             ы
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  agagagagagaacaaaaaacaaagagagagaaaaaargaatticarcraarcarcrga 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT 743
                                                                                                                                               JEAN YUAN
C12N15/09, C07K14/47, C07K16/18, C07K19/00, C12N1/19, C12N1/21,
                                                                                                                    PI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GGGTCAGTGGCAATGGGTGGACGGCACCTTTGACAAAGTCTCTGAGCTTCTGGGATGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGGGAGCCCAACAACAACATAGCTACCCTGGAGGACTGTGCCACCATGAGAGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATCACCAGATGTGTTGTGACATTTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CAGCTCTCAAA---TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CIGCTACAATTATGGATCAGGTTCAGTCAAGAATTGTTGTCCATTGAACTGGGAATATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TCAATCCAGCTGCTACTTCTTTTCTACTGACACCATTTCCTGGGCGTTAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAACTCACAGGAGGAGGAGGAAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTCAGTGGCTGTTTCATCACCAGATGTGTCGTAACATATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CATCITICAAACCIGIGAIGAGAAAAGIITICAGCIACCIGAGAATITCACAGAGCICIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TCAATCTAGTTGTTATTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITICGCACAAAATCTAAAAGGAAAGAGTTTTATATTGGACTGACAGACCAGGTGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GGGTCAGTGGCAATGGAAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATCCCACCACAGAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                             Gарв
60/064148 PR
60/064148 PR
60/065186 PR
60/065631 PR
60/066364 PR
60/066466 PR
60/066410 PR
60/066410 PR
                                                                                                                                                                                                                                                                                                                                                                                                                                           11;
                                                                                                                                                                                                                                                                                                                                                                                                                Length 997;
                                                                                                                                                                                                                                                                                            /organism='Homo sapiens (human)'.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
   97 US
97 US
97 US
997 US
997 US
997 US
997 US
                                                                                                                                                                                                                                                                                                                                                                                                               Score 439.4; DB 6;
Pred. No. 1.5e-82;
0; Mismatches 216;
            60/063870,03-NOV-1997 UG
60/063870,03-NOV-1997 UG
60/065120,21-NOV-1997 UG
60/066772,24-NOV-1997 UG
60/066770,24-NOV-1997 UG
60/066770,24-NOV-1997 UG
10/066453,25-NOV-1997 UG
10/101 LG GURNEY, AUDREY GODI
                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                          1. .997
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                              .997
 29-OCT-1997 US 60/063
31-OCT-1997 US 60/065
07-NOV-1997 US 60/065
17-NOV-1997 US 60/065
24-NOV-1997 US 60/066
24-NOV-1997 US 60/066
24-NOV-1997 US 60/066
MILLIAM I WOOD, AUSTIN L
                                                                                                                                                                                                                                                                                                                                                                                                             17.5%;
72.9%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CGGGGCCTCCATCCTGTT
                                                                                                                                                                                                                                                encoding the same
FH Key
FT source
                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local Similarity 72.9
Matches 610; Conservative
                                                                                                                                                    집
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            684
                                                                                                                                                                                                                                                                                                                             source
                                                                                                                                                                                                                                                                                                            FEATURES
                                                                                                                                                                                                                                                                                                                                                                                   ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         쉱
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  linear PAT 18-FEB-2003 and nucleic acids encoding
                               541
                                                             563
                                                                                         601
                                                                                                                     623
                                                                                                                                                  661
                                                                                                                                                                             683
                                                                                                                                                                                                         721
                                                                                                                                                                                                                                       743
                                                                                                                                                                                                                                                                  781
                                                                                                                                                                                                                                                                                                                            841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Secreted and transmembrane polypeptides and nucleic acids encoding
                                                                                                                                                                                                                                                                                               GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                                                                                                                       ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAATCCAACATAAGAAAATAT 858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

    (bases 1 to 997)

                                                                                                                                                                                                                                                                                                                                                                                                                915
                                                                                                                                                                                                                                                                                                                                                                                                                                 PR
                                                                                                                                      GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACAACTCAA
                                                                                                                                                                                                                                                                                                                                                                             CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT
                                                                                                                    GGGTCAGTGGCAATGGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                                                                                                                                             cccaaggcaaarriggaargargraaccrgrrrrccrcaarrarrrrcggarrrrgraaar
                  CTGCTCAGCCATGGGGGCTCACCTGGTGTTATCAACTCACAGGAGGAGGAGGAATTCCT
   TTGCTCAGACATGGGGCCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT
                                                          TTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTGGACTGACAGGTGGTGGA
                                                                                      Trccracaagaaaccraaaargagagagrrrrrratrgacrgrcagaccaggrrgrga
                                                                                                                                                                             TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US 60/059184 160/059117 PR 60/059121 PR 60/059263 PR 60/062125 PR 60/062285 PR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Zheng, J. and
                                                                                                                                                                                                                                                                                                                                                                                                                CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          60/063564
60/063738
60/063435
60/063735
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                60/062816
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           60/063121
60/063128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     60/063541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         60/063327
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 (bases 1 to 997)
Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US 60/059115,17-SEP-1997 US 60/059121,17-SEP-1997 US 60/059113,17-SEP-1997 US 60/059113,17-SEP-1997 US 60/059266,15-077-1997 US 60/06287,17-077-1997 US 60/063120,24-077-1997 US 60/063120,24-077-1997 US 60/06355,24-077-1997 US 60/06355,28-077-1997 US 60/06354,28-077-1997 US 60/06354,29-077-1997 US 60/06354,29-077-1997 US 60/063704,29-077-1997 US 60/063704,29-077-1997 US 60/064215,29-077-1997 US 60/064215,29-077-1997 US 60/064215,29-077-1997 US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BD172543 997 bp DNA Secreted and transmembrane polypeptides the same.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JP 2002223786-A 316 13-AUG-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens (human)
JP 200223786-A/316
13-AUG-2002
18-DEC-2001 JP 2001385135
17-SEP-1997 US 60/059115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BD172543
BD172543.1 GI:28413845
JP 2002223786-A/316.
Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Patent: JP 200
GENENTECH INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                OS Homo Bap
PN J-2022
PF 18-DEC-2
PF 18-DEC-2
PR 17-SEP-1997 U
17-SEP-1997 U
17-CT-1997 U
18-SEP-1997 U
18-SEP-1997 U
24-OCT-1997 U
24-OCT-1997 U
24-OCT-1997 U
28-OCT-1997 U
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28-OCT-1997
29-OCT-1997
29-OCT-1997
29-OCT-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ваше
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            the
                              482
                                                                                                                                                                            624
                                                                                                                                                                                                                                                                                             744
                                                                                                                                                                                                                                                                                                                                                                                                                859
                                                            504
                                                                                                                    564
                                                                                                                                               602
                                                                                                                                                                                                                                    684
                                                                                                                                                                                                                                                                                                                                                       799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 14
BD172543
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMMENT
```

q

ઠે

a

ò

셤

ઠે

```
207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         726
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              359
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 846
                                                                                                                                                                                                                                                                         source
                                                                                                                                                                                                                                   FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                               ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              997 bp DNA linear PAT 18-FEB-2003 and transmembrane polypeptides and nucleic acids encoding
                                                                                                                                                                                          785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C12P21/02//C12P21/08, (C12N1/19, C12R1:645), (C12N1/21, C12R1:19),
                                                                                                                                                                                                                                                                 ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAAATATA 858
                                                                                                                                                                                                                                                                                                                                 (C12NS/10,C12R1:91), (C12P21/02,C12R1:91), (C12P21/02,C12R1:645), PC (C12P21/02,C12R1:19), (C12P21/08,C12R1:91),C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00,C12N5/00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Secreted and transmembrane polypeptides and nucleic acids encoding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C12N15/09, C07K14/47, C07K16/18, C07K19/00, C12N1/19, C12N1/21, PC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo. 1 (bases 1 to 997)
Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TT-SEE-1997 US 60/05912,17-SEE-1997 US 60/059117 PR 17-SEE-1997 US 60/059121 PR 17-SEE-1997 US 60/059121 PR 17-SEE-1997 US 60/059121 PR 17-SEE-1997 US 60/059121 PR 18-SEE-1997 US 60/059121 PR 18-SEE-1997 US 60/059126 PR 18-SEE-1997 US 60/059126 PR 18-SEE-1997 US 60/069266 PR 17-OCT-1997 US 60/062287,17-OCT-1997 US 60/06228 PR 24-OCT-1997 US 60/063121 PR 24-OCT-1997 US 60/063121 PR 60/063120,24-OCT-1997 US 60/063121 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063121 PR 60/063120 PR 60/063121 PR 60/063120 PR 60/063121 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/063120 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/06410 PR 60/
                                                                                                                                                                                                                                                                                                                                                                                                       CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAGA 915
                                                                                                                                                                                                                                                                                                                                                                                                                                             TGCGCTGAACTTCAAAGGACTTCATAAGTATTTGTTACTCTGATACAAATAAAAATA 902
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 찚
CCCAAGGCAAAATTGGAATGTAACCTGTTTCCTCAATTATTTTGGGATTTGTGAAAT
                                                                                                                   GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC
                                                                                                                                                                                          GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACAACTCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Parent: JP 2002238586-A 316 27-AUG-2002;
GENENTECH INC
OS Homo sapiens (human)
PN JP 2002238586-A/316
PD 27-AUG-2002
PF 18-DEC-2001 JP 2001385205
PR 17-SEP-1997 US 60/059112,17-SEP-19
17-SEP-1997 US 60/059122,17-SEP-1997 US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BD172862.1 G1:28414166
JP 2002238586-A/316.
Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JIAN ZHENG,
PI JEAN YUAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Secreted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            the same.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BD172862
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Bame
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        12N5/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           nan, J
                                                                                                                   744
                                                                                                                                                                                   726
                                                                                                                                                                                                                                                                 799
                                                                                                                                                                                                                                                                                                                                 984
                                                                                                                                                                                                                                                                                                                                                                                                       859
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  846
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BD172862
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   COMMENT
```

```
acida
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     crecracaarrargearcaegricaercaagaarrerrerccarreaacreseaararrr 365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TCAATCCAGCTGCTACTTCTTTCTACTGACACCATTTCCTGGGCGTTAAGTTTAAAGAA 425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            624 TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCCACCATAAGGGACTCTTCAAA 683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT 743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACAACTCAA 785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAATCCAACATAAGAAAATAT 858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              845
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TGCGCTGAACTTCAAAGGACTTCATAAGTATTTGTTACTCTGATACAAATAAAAATA 902
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAGA 915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <u> AGAGAAGGAAAGGAAGGCAGGAAAAAGGAAGAATGAATTCAACCAAATCGCCTGC</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               147 ATCCCACCACACAGAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ceeeeccrccarccrerrrcacrerrerrarrcarcaccaearereracararce
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <u>AGAGAGAGAAACAAAAACCAAAGAGAGAGAAAAAAATGAATTCATCTAAATCATCTGA</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CAGCTCTCAAA---TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         246 CATCTTTCAAACCTGTGATGAAAAAGTTTCAGCTACCTGAGAATTTCACAGAGCTCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             426 CTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAACTCACAGGAGGAGGAGGAGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   546 GGGTCAGTGGCAATGGGTGGACGCACACTTTGACAAAGTCTCTGAGCTTCTGGGATGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCCAAGGCAAAATTGGAATGATGTAACCTGTTTCCTCAATTATTTTCGGATTTGTGAAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCAATCTAGTTGTTATTTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATATTGGACTGACAGACCAGGTGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gapa
                                                   ន
                                                       nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 997;
                                                                                                                                                                                                                                   (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         17.5%; Score %0. 1.5e-82; 72.9%; Pred. No. 1.5e-82; Indels ive 0; Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mismatches 216; Indels of Mism
                                                       and
                                                                                                                                                                                ce 1. .997
/organism='Homo sapiens
Location/Qualifiers
                                                       transmembrane polypeptides
                                                                                                                                      Location/Qualifiers
                                                                                                                                                                                                                                                                                                                   1. 997
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
(C12NS/00,C12R1:91)
CC Secreted and treencoding the same
FH Key
FT source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Local Similarity 72.9
Matches 610; Conservative
```

Search completed: June 9, 2005, 07:24:20 Job time : 10831 secs

```
9, 2005, 02:18:26 ; Search time 1325 Seconds (without alignments) 11245.275 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                       1 cggtctgttactcttgaact.......aaataaagtaataaactatt 2517
                                                                                                                                                                                                                                                                                                                                                                                                        8780412
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                                                                                                                                                                                                                                 Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                            4390206 segs, 2959870667 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                 OM nucleic - nucleic search, using sw model
                                                                                                                                                                                                                                                                                            IDENTITY NUC
Gapop 10.0 , Gapext 1.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         geneseqn2003cs:*
geneseqn2003ds:*
geneseqn2004as:*
geneseqn2004bs:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         N_Geneseq_16Dec04:*

1: geneseqn1980s:*

2: geneseqn2000s:*

4: geneseqn2001as:*

5: geneseqn2001as:*

6: geneseqn2001as:*

7: geneseqn2003as:*

9: geneseqn2003as:*
                                                                                                                                                                                                                                                                                                                                                                                                                                           Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                       US-10-812-620-1
2517
                                                                                                                            June
                                                                                                                                                                                                         Title:
Perfect score:
                                                                                                                                                                                                                                                                                              Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Database :
                                                                                                                                                                                                                                                   Sequence:
                                                                                                                                                                                                                                                                                                                                                            Searched:
                                                                                                                        Run on:
```

Result No	9	Query	, 1	9	SUMMARIES	
	SCOLE	Macch	watch Length DB	9 !	1D	Description
٦	2507.4	99.6	2517	4	AAF86349	Aaf86349 Murine cD
0	456.2	18:1	2143	Ŋ	ADL63521	Adl63521 Human ova
m	456.2	18.1	2143	12	AD024494	Ado24494 Human PRO
4	441	17.5	968	4	AAF81743	Aaf81743 Human mem
ហ	441	17.5	916	10	ADF90738	Adf90738 Human hep
ø	441	17.5	990	7	ADR41300	Adr41300 Human CD-
7	439.4	17.5	997	N	AAX52274	Aax52274 Protein P
ω	439.4	17.5	997	m	ADC78688	
Φ	439.4	17.5	997	4	AAF72432	Aaf72432 Human PRO
10	439.4	17.5	997	4	AAS45936	Aas45936 Human DNA
11	439.4	17.5	997	œ	ACA60316	Aca60316 Human cDN
12	439.4	17.5	997	æ	ACA89386	Aca89386 cDNA enco
13	439.4	17.5	997	8	ACA73396	Aca73396 Human sec
14	439.4	17.5	997	æ	ACA05711	Aca05711 Human sec
15	439.4	17.5	997	œ	ACA66545	Aca66545 cDNA enco
16	439.4	17.5	997	œ	ACD07717	Acd07717 Novel hum
17	439.4	17.5	997	œ	ACF20120	Acf20120 Human sec
18	439.4	17.5	997	œ	ACF19506	Acf19506 Human sec
19	439.4	17.5	997	æ	ACD21794	Acd21794 Human sec
20	439.4	17.5	997	ω	ACF12959	Acf12959 Human sec

Acd25062 Human sec Aca72168 Novel hum Acd18153 Human sec Acd08150 Human sec Acd08150 Human sec Acd08159 Human sec Acd12258 Novel hum Aca70036 Human sec Acd12258 Novel hum Acc74173 Human sec Acd15801 Human sec Acd25369 Novel hum Acd17846 Human sec Acd25369 Novel hum Acd17846 Human sec Acd25369 Human sec Acd1854 Human sec Acd18554 Human sec Acd1855 Human sec Acd1855 Human sec Acd18554 Human sec Acd1855 Human sec Acd13915 Human sec Acd13915 Human sec Acd21180 Human sec Acd21180 Human sec Acd21180 Human sec	ABNTS				Mincle.	nflammatory; macrophage; inflammation; erleukin 6; NP-IL6; 88.										ectin for the treatment of immune		ectin, termed Mincle, which is formed of nuclear factor interleukin 6 (NF-
ACD25062 ACF01111 ACAC1568 ACD18153 ACD18153 ACD18153 ACD12258 ACC74173 ACD12258 ACC74173 ACD12258 ACC74173 ACD1258 ACD1258 ACD1258 ACD1258 ACD1258 ACD1258 ACD1258 ACD1258 ACD1258 ACD1258 ACD1258 ACD1258 ACD13915 ACD13915 ACD13915 ACD13915	ALIGNMENTS	7 BP.			lectin M	, antii tor int		nalifiers "Mincle" type lectin'				٠	GY CORP.			-type lect	8e.	C-type l
		251		÷.	type	ctin		5 = 1			5820	3724	ZOLO			o:	apane	o a arge
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		; cDNA;		st entry	ing C-ty	type led		Location/Q 124768 /*tag= a /product= /note= "C-			000WO-JP00682	JP-00293	& TECHNOLOGY	to M;	28.	activating nflammation	Opp; Jar	ates t onal t
ស់ ស.ស.ស.ស.ស.ស.ស.ស.ស.ស.ស.ស.ស.ស.ស.ស.ស.ស.ស		ard		fir	encod	- ': - ':		33/44			1000	99	SCI	Bumot	71/2	act inf]	9 .	rel
11111111111111111111111111111111111111		andard		٠		de;			-A1		. 7			Matsı	737 972		ون 44	5 5
4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	-	1 19 1F86349 Bt	VF86349;	-JUL-2001	Murine cDNA	vuse; Mi	. дв вр.	ķ. Sc	1727210020	-APR-2001	-OCT-2000	-OCT-1999	(NISC-) JAPAN	iira S,	I; 2001-2 PSDB; AAB	ew macrophage isorders and	aim 4; Fi	This invention from a transcr
00000000000000000000000000000000000000	E:	OLT 1 86349 AAF	AAF	23	Σ	Mo	Mus	Key CDS	WO2	19	02	15	3	Aki	W d	di di	ប	T. f. r
	α Ω	AAF ID XX	S S	4	[[]	\$ 2 2 \$	\$ 8 \$	%###### %######	{ Z }	€ 2 :	¥ & :	\$ # \$	* * * *	₹ II \$	388 3	XEE 3	S S X	88

~

1260

1320

```
ACATAAGTAAAAAGACTTGTTCCCATTGCTAAAAGTCCACAGCATTGTCTGATGGTCTTG
                   CCATAACCTGAAAGATCTCTTTTTAGACTGTACAGATCAATTCTCTAACAAATGCAACAA
                             GAAGAAAGGGATTCTCCTTTTCACATCTGTCTTGCACATCTGTCTTGCTCATGAGAATTG
                                                                     GAAGAAAGGGATTCTCCCTTTCACATCTGTCTTGCACATCTGTCTTGCTCATGAGAATTG
                                                                                                ATATGAAGGAAGAGGAAAAGCAGATGTCTGTATAAAGAGACTTTAATGGTCACTATGT
                                                                                                            ATATGAAGGAAGAGAGAGAAGCAGATGTCTGTATAAAAGAGACTTTAATGGTCACTATGT
                                                                                                                                                                                          TCTGTGTTCTCCCAACAGTGAAGATGCATCTTTGAGTCTTTAAACTTACCTGCCGCTT
                                                                                                                                                                                                                    TTCTATAAACTGGATTTCACCTGTACTTGTATCTACTGCGCAAGTAGAACCTGCTCAGTA
                                                                                                                                                                                                                                                                                                                                                    TATTGCATGATATTCTGTCAATATAGACCATGTTTCTTCCTGGACAAAAGCCCATTAGGAAC
                                                                                                                                                                                                                                                                                                                                                                                                                     TTCAGCAGCAGTCACACTTGTAATAAACATGTATCCTTGAGTAGGAAAATTAAACTAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                   TTCAGCAGCAGTCACACATTGTAATAAACATGTATCCTTGAGTAGGAAAATTAAACTAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                          TAAATTAATTTGTCATATTAGCACTCATTACGAGCACTTCTATTAGACTTTCTCACAATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TGATTTTGAAATTGATAACCTTATTTTAAATACAAATATATTTTACAACCACACATTTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTCTCTTTTTAAAATTATTTTGTTTGAAAATTTTGTGCATTTATATAATTCACTTTTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CITCTCITITITAAAAITAITITIGITIGAAAATITIGIGCAITIATATATAATITIA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCCCAATTTCATGTGCTCCTCTTTGTTTTAAACCCACTCTATCTGCTCAGTGCTTCCTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TCCCAATTTCATGTGCTCCTCTTTGTTTTAAACCCACTCTATCTGCTCAGTGCTTCCTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATGCACTTGAGTATAAGGCTTTCTACTGGACCATAGCCTCTCGGCAACCACATCCCATAC
                                                                                                                                       TCTGTGTTCTCCAACAGTGAGGAAGATGCATCTTTGAGTCTTTAAACTTACCTGCCGCTT
                                                                                                                                                                                                                                                                                                  TICIATAAACIGGATITCACCIGTACTIGTATCTACTGCGCAAGTAGAACCTGCTCAGTA
                                                                                                                                                                                                                                                                                                                                         TATTGCATGATATTCTGTCAATATAGACCATGTTTCTTCCAGACAAAGCCCATTAGGAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TGAITTTGAAATTGATAACCTTATTTAAATACAAATATATGTCTTACAACCACACATTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATGAACCCATCCTTACTCCTCACTACAACCTGCTCCTATCCACCTCACTGATTTTCCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1081
                                                                                                                                                           1141
                                                                                                                                                                               1201
                                                                                                                                                                                                   1201
                                                                                                                                                                                                                                        1261
                                                                                                                                                                                                                                                                               1321
                                                                                                                                                                                                                                                                                                                      1381
                                                                                                                                                                                                                                                                                                                                          1441
                                                                                                                                                                                                                                                                                                                                                             1441
                                                                                                                                                                                                                                                                                                                                                                                 1501
                                                                                                                                                                                                                                                                                                                                                                                                   1501
                                                                                                                                                                                                                                                                                                                                                                                                                                          1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                              1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1621
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1741
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1741
                                                           1021
                                                                              1021
                                                                                                 1081
                                                                                                                                        1141
                                                                                                                                                                                                                      1261
                                                                                                                                                                                                                                                            1321
                                                                                                                                                                                                                                                                                                   1381
                                                                                                                                                                                                                                                                                                                                                                                                                       1561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1801
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1801
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1921
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1921
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1981
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1981
 901
                                       961
                  961
 8 8 8
                                                     8 8 8
                                                                                                              8 8 8 8
                                                                                                                                                                                            g
                                                                                                                                                                                                             8 S
                                                                                                                                                                                                                                                     8 6 8 6
                                                                                                                                                                                                                                                                                                                                    8 8 8
                                                                                                                                                                                                                                                                                                                                                                                            g S
                                                                                                                                                                                                                                                                                                                                                                                                                                    8 &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           음 상 음
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8 6 8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                        ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         900
                                                                                                                                                  120
                                                                                                                                                                                                                               240
                                                                                                                                                                                                                                                  240
                                                                                                                                                                                                                                                                      300
                                                                                                                                                                                                                                                                                          300
                                                                                                                                                                                                                                                                                                             360
                                                                                                                                                                                                                                                                                                                                360
                                                                                                                                                                                                                                                                                                                                                    420
                                                                                                                                                                                                                                                                                                                                                                     420
                                                                                                                                                                                                                                                                                                                                                                                          480
                                                                                                                                                                                                                                                                                                                                                                                                             480
                                                                                                                                                                                                                                                                                                                                                                                                                                 540
                                                                                                                                                                                                                                                                                                                                                                                                                                                  540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           600
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              099
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        720
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               780
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             900
IL6). Mincle is a macrophage activating protein which can be used in the treatment of immune disorders, and inflammation. Compositions containing the protein have immunomodulatory and antiinflammatory activity. The present sequence represents murine cDNA encoding Mincle
                                                                                                           9
                                                                                                                              9
                                                                                                                                                                                                   TCCCAAGTGCTCTCCTGGACGATAGCCGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTC
                                                                                                                                                                                                                                                                                                                         CATAGAAATATTAAGGAGCTTTCCTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGC
                                                                                                                                                                                                                                                                                                                                                                                                                               ACATAAGTAAAAAGACTTGTTCCCATTGCTAAAAGTCCACAGCATTGTCTGATGGTCTTG
                                                                                                                                                                                         AGAATGAATTCAACCAAATCGCCTGCATCCCACCACACAGAGAGGATGCTTCAAAAAC
                                                                                                                                                                                                                                                                                CATAGAAATATTAAGGAGCTTTCCTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGC
                                                                                                                                                                                                                                                                                                                                                    TGTCCTTTGAACTGGAAACATTATCAATCTAGTTGTTATTTTTTTCTCTACGACAACCTTG
                                                                                                                                                                                                                                                                                                                                                               TGTCCTTTGAACTGGAAACATTATCAATCTAGTTGTTATTTTTTTCTCTACGACAACCTTG
                                                                                                                                                                                                                                                                                                                                                                                          ACCTGGTCATCAAGTTTAAAGAATTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GGACTGACAGACCAGGTGGAGGGTCAGTGGCAATGGGAGGATGATACACCTTTCACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GGACTGACAGACCAGGTGGTGGAGGGTCGATGGGTGGATGATACACCTTTCACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GAGTCCCTGAGCTTCTGGGATGCTGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GCCACCATAAGGGACTCTTCAAACTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGTATGCCTTGGATTTGTGAGATGCCAGAAATAAGTCCTCAGGACTAAGTGCAAGGAAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ACAAGGGACATGGCTTACATGCATGAAGAACAAGAGTGAATGTAATAACAACAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACAAGGGACATGCCTTACATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACAAAA
                                                                                                                                                 TTCCAGGGGCTCTTTCTAAACTGAGAAGAAGGAAAAGGAAAGGCAGGAAAAAAGGA
                                                                                                                                                                                                                             TCCCAAGTGCTCTCCTGGACGATAGCCGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTC
                                                                                                                                                                                                                                                                       ATCACCAGATGTGTCGTAACATATCGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCA
                                                                                                                                                                                                                                                                                                                                                                                                             ACCTGGTCATCAAGTTTAAAGAATTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GAGTCCCTGACCTTCTGGGATGCTGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGT
                                                                                        Gaps
                                                                                        .
0
                                                 0 Other
                                                                                        Indels
                                                                                        9
                                                 0
                                                                     ВВ
                                                 Ë
                                                                   Score 2507.4;
Pred. No. 0;
0; Mismatches
                                                463 G;
                                                Sequence 2517 BP; 756 A; 533 C;
                                                                   Query Match
Best Local Similarity 99.8%;
Matches 2511; Conservative
                                                                                                                                                                   61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           541
                                                                                                                                                  61
                                                                                                                                                                                       121
                                                                                                                                                                                                           121
                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                  181
                                                                                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                                                          241
                                                                                                                                                                                                                                                                                                            301
                                                                                                                                                                                                                                                                                                                                301
                                                                                                                                                                                                                                                                                                                                                    361
                                                                                                                                                                                                                                                                                                                                                                      361
                                                                                                                                                                                                                                                                                                                                                                                         421
                                                                                                                                                                                                                                                                                                                                                                                                             421
                                                                                                                                                                                                                                                                                                                                                                                                                                 481
                                                                                                                                                                                                                                                                                                                                                                                                                                                   481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                901
                                                                                                                                                                                   6 6 6 6 6 6
                                                                                                                                                                                                                                                                                                                         8 8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                        8 & 8
8886666
                                                                                                          ò
                                                                                                                            셤
                                                                                                                                                ò
                                                                                                                                                             유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                8 8 8 8 8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6 6 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       엄
```

1620

Mon

```
2400
                                             2160
                                                                                                                                                                      2340
                                                                                                                     2280
                                                                                                                                                                                                                                             2400
                                                                                                                                                                                                                                                                                             2460
                                                                                                                                                                                                                                                                     CTATTTAGAAATTGGACAGGTGGGGAATCATCCAATTGAAACTCGAAAAATGTAGTGTTT 2460
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Novel isolated nucleic acid molecules (markers) overexpressed in ovarian cancer cells as compared to their normal non-cancerous ovarian cells are used to characterize stage, grade, histological type of ovarian cancer.
                                                                                                                                                                                                                                                                                                                  TGTACATTAGGTTACAGAAAACAACTTTAGCCACAAAAATAAAGTAATAAACTATT 2517
                                                                                                                                                                                                                                                                                                                               TGCTATCTCTTCTGTATCCCTAGAATCTCTAGGAGCTTCATATTAAAAGATTCTGAATTC
                                                                                   CATCAAAGGGCACACAAAAGAAATCACAAAAGACCATGTGGTTTCTGTCCTTGGGTTTATTT
                                                                                                                                   AAACATGACCCGAAAACTATCTTGGCCGGGAAAATTTTAAATTTTATCTTAACATAAATTTC
                                                                                                                                                                                                                                                                                 CTATTTAGAAATTGGACAGGTGGGGAATCATCCAATTGAAACTCGAAAATGTAGTGTTT
Argadereceardecarrectedaarrregerrerrargraacerrarrarrar
                                                                     CATCAAAGGGCACACAAAGAAATCACAAAGACCATGTGGGTTTCTGTCCTTGGGTTTATTT
                                                                                                                     GCAAGGTTCATTACACTCCTTGACTTGTATATTGTGACATCCCTCCATCTCTAGGATG
                                                                                                                                                                      AAACTGAAGTGATCATGATAGATAACTTTTGGATCTTTTCACTTTTCTATTGCTGTGATG
                                                                                                                                                                                                                     AAACATGACCCAAAACTATCTTGGGCCGGGAAAATTTTAATTTTATCTTAACATAAATTTC
                        TGCTATCTCTTCTGTATCCCTAGAATCTCTAGGAGCTTCATATTAAAAGATTCTGAATTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; ovarian cancer; ds; tumour; cytostatic; DNA marker.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; SEQ ID NO 21733; 106pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human ovarian cancer DNA marker #21733
                                                                                                                                                                                                                                                                                                                                                                                                       먪.
                                                                                                                                                                                                                                                                                                                                                                                                       ADL63521 standard; DNA; 2143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2000US-0191031P.
2000US-0207124P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2000US-0211940P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2000US-0216820P.
2000US-0220661P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    21-MAR-2001; 2001WO-US009126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2000US-0257672P
                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2001-611502/70.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Lillie J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO200170979-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 07-JUL-2000;
25-JUL-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21-MAR-2000;
25-MAY-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      15-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       20-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             27-SEP-2001
2041
                                                                                                                                            2221
                                             2101
                                                                     2161
                                                                                            2161
                                                                                                                     2221
                                                                                                                                                                    2281
                                                                                                                                                                                          2281
                                                                                                                                                                                                                     2341
                                                                                                                                                                                                                                                                     2401
                                                                                                                                                                                                                                                                                                                    2461
                                                                                                                                                                                                                                                                                                                                            2461
                      2101
                                                                                                                                                                                                                                           2341
                                                                                                                                                                                                                                                                                          2401
                                                                                                                                                                                                                                                                                                                                                                                                                               ADL63521
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Lee J,
                                                                                                                                                                                                                                                                                                                                                                               RESULT 2
                                                                                                                                                                                                                                                                                                                                                                                           ADL6352
                                       a
                                                                                      d
                                                                                                                                      a
                                                                                                                                                                                                                                     a
                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                  δ
                                                                                                                                                                                                                                                                                                                                                                                                                    ઠે
                                                                    ઠે
                                                                                                                   8
                                                                                                                                                                  ò
                                                                                                                                                                                    6 B
                                                                                                                                                                                                                                                                  ò
```

C The invention relates to nuclear acid markers which are overspressed in cancerous) ovarian calls as compared to their expression in normal (i.e. non-cancerous) ovarian calls. The invention also relates to polypeptides cancerous) ovarian calls. The invention also relates to polypeptides cancerous) ovarian calls. The invention and a method of the cancerous of the patient and the markers and a method of treating a patient afflicted with ovarian cancer involving inhibiting expression of a gene corresponding to a marker of the invention and a method of treating a patient an antiense oligonuclectide complementary to a marker of the patient an antiense oligonuclectide complementary to a marker of the patient an antiense oligonuclectide complementary to a marker of the with ovarian cancer, which involves comparing the level of expression of the arker in a control non-ovarian cancer sample. A difference between the expression levels indicates ovarian cancer. The level of expression of the expression levels indicates ovarian cancer. The level of expression of a polynuclectide or its portion. The level of expression of the marker is assessed by detecting the presence in the sample, a protein or protein fragment carcered protein or to a transcribed or carsesponding to the marker. The presence of a transcribed polynuclectide which anneals with the marker, under stringent conditions. The protein or protein fragment. Alternatively, the level of expression of the polynuclectide which anneals with the marker or anneals with a portion of the polynuclectide which anneals with the marker or anneals with a patient and comparing the level of expression of the marker is a subsequent to time, repeating the method is carried out time and comparing the level of expression of the marker in a patient which involves detecting the presence of a carried out time and comparing the level of expression of the marker of the polynuclectide which anneals with the marker or anneals at a first point in time, repeating the method is carried out tim invention relates to nucleic acid markers which are overexpressed WIPO at ftp.wipo.int/pub/published_pct_sequences.

Sequence 2143 BP; 588 A; 470 C; 409 G; 674 T; 0 U; 2 Other;

351 383 146 174 206 231 266 291 323 411 443 471 503 531 563 591 carcirricaaaccrergargaaaaaagrirrcagcraccreagaarrircacagagcrerc TICCTACAAGAACCTAAAATGAGAGTTTTTTTTTTGACTGTCAGACCAGGTTGTCGA agagagagagaacaaaagccaaagagagaaaaaargaarrcarcraaarcarcrga 175 AACACAATGCACAGAGAGAGATGCTTC---TCTTCCCAAATGTTCTTATGGACTGTTGC CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA CTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGTTGTTGTCCATTGAACTGGGAATATTT TCAATICCAGCTGCTACTTCTTTTCTACTGACACCATTTCCTGGGGGTTAAGTTTAAAGAA CTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAACTCACAGGAGGAGCAGCAGGAATTCCT TITICGCACAAAATCTAAAAGGAAAAGAGTTTTATATTGGACTGACAGACCAGGTGGT ATCCCACCACACAGAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCCTGGACGATAGC CGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACCAGATGTGTCGTAACATATCG CAGCTCTCAAA---TTTCCGGGCAGACTTACAGCCACATAGAAATATTAAGGAGCTTTC TCAATCTAGTTGTTATTTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA 444 TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT Gape 99 Query Match 18.1%; Score 456.2; DB 5; Length 2143; Best Local Similarity 62.3%; Pred. No. 5.7e-98; Matches 915; Conservative 0; Mismatches 488; Indels 66; 532 115 147 207 267 292 324 352 384 412 472 504

셤

ద

8

ò a ò g

g

ò

ò

g

셤 ઠે

ઠે

ઠે g ò 564 GGGTCAGTGGCAATGGGAAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC 623

(first entry)

12-AUG-2004

```
1011
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1430
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1549
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         971 AAAGATCTCTTTTTAGACTGTACAGATCAATTCTCTAACAAATGCAACAAGAAGAAAGGG 1030
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1071
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1072 TTTAGTGTTCGTATGAAAGTACAGGGACACGGAGCCAAGACAGAGTCTAGCAAAGAAGGG 1131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1091 AGAGGTAGAAAGCAGATGTCTGTATAAAGAGACTTTAATGGTCACTATGTCATCCTGTTC 1150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1132 GATTTTGGAAGGTGCCTTCCAAAATCTCCTGAATCCGGGCTCTGTAGCAGGTCCTCTTC 1191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CCAAGCATATATCGTCTCTTTACTCCCCTGTATAATGAGTAAGAAGCTTCTTCAAGTCAT 1311
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1312 GAAACTTA-TTCCTGCTCAGAATACCGGTGTGGCCTTTCTGGCTACAGGCCTCCACTGCA 1370
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1291 TCTCCATATGGAAAGGCCGGTCAAACTTCAGTTCCTAACAGATTGTGATCTAGTCCACTC 1350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                -TTCCTGGAGCCCCATTTTCTCTGTGTTCTCTATAAAC----TGGATTTCACCTGTA 1405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Arccingedecricerinecrenererininarinicalineareanidareneara
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CTTGTATCTACTGCGCAAGTAGAACCTGCTCAGTAGGTTCAAAGTGAAATTATTTAAAAA 1465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1192 TTTCTAGCTTCTGACAAGTCTGTCTTCTTGGTTTCATACCGTTCTTATCTCCTGC 1251
                                                               683
                                                                                                                                                                                                                                                             831
                                                                                                                                                                                                                                                                                                    858
                                                                                                                                                                                                                                                                                                                                        891
                                                                                                                                                                                                                                                                                                                                                                               918
                                                                                                                                                                                                                                                                                                                                                                                                                      951
                                                                                                                                                                                                                                                                                                                                                                                                                                                           919 GTTCCCATTGCTAAAAGTCCACAGCATTGTCTGATGG-----TCTTGCCATAACCTG 970
                      651
                                                                                                                                                                               712 CCCAAGGCAAAATTGGAATGATGTAACCTGTTTCCTCAATTATTTTCGGATTTGTGAAAT 771
                                                                                                                                                                                                                      GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                             GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACACTCAA
                                                                                                                                                                                                                                                                                                  ATGCATGAAGAAGAAGAGTGAATGTAATAACAACCAAAATCCAACATAAGAAAATAT
                                                                                                                                                                                                                                                                                                                                      952 agitttaaatgitahahtteatgttaciegerigaagtecartttererererer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1012 caggrecrerreceagaarrracaaageaarrearacerrrrgeracarrrecerearr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                rrigiarciariecreaecraseacceaercearastrearri-arrerasecsaaca
                                                                                                  652 AGGGGAGCCCAACAACATAGCTACCCTGGAGGACTGTGCCACCATGAGAGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TTTCTACATCCTTGGCTCTAGCTTATCTATCTATCAGTACATAGATCACTTCTGTGTTCT
cerrerraggadescareceaecearcacerceaececeaececererandesceaecece
                                                                                                                                                                                                                                                                                                                                                                                                                      1031 ATTCTCCTTTTCACATCTGTCTTGCACATCTGTCTTGCTCATGAGAATTGATATGAAGGA
                                                                                                                                        CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTTGTGAGAT
                                                                                                                                                                                                                                                                                                                                                                               859 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAGACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1243 TAAACTTACCTGCCGCTTGGGAGAATGGCATGGCCTT------CAGCAAGGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TTCATGTTCACATTTTTCTGTCTCAGGAC 1494
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            rrcarcrcacacrrrccrercrcaaecc 1578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1431
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1491
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1550
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1466
                                                                                                                                                                                                                                                                                                  799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                ద
                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                요
                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ሯ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                    유
                                                           ઠ
                                                                                             g
                                                                                                                                    ò
                                                                                                                                                                     셤
                                                                                                                                                                                                                    ð
                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                ò
```

ADO24494 standard; cDNA; 2143 BP.

RESULT 3 AD024494 AD024494

```
The present invention describes an isolated human PRO polypeptide (I).

Also described: (1) an isolated PRO nucleic (II) acid encoding (I); (2) a vector (III) comprising (II); (3) a host cell (IV) comprising (III); (4) producing (I); (5) a chimeric molecule (V) comprising (III); (4) broading to (I); (7) a composition of matter comprising (I) an agonist of (II), an antagonist of (I), or (VI) in compination with a carrier; (8) treating (MI) an immune related disorder in a mammal, by administering (I), an agonist of (I), an antagonist of (I), or the mammal, by detecting the level of expression of a gene encoding (I) in a test sample of tissue cells of expression of a gene encoding (I) in a test sample of tissue cells obtained from the mammal and in a control sample of Known normal tissue cells of the same cell type; (10) identifying a compound that inhibits the activity of (I); (11) identifying a compound that inhibits the expression of a gene encoding (I); (12) identifying a compound that inhibits the activity of (I); and (12) stimulating the immune response in a mammal, by administering (I) or its antagonist to the mammal. (I) has mammal, by administering (I) or its antagonist to the mammal. (I) has antiarrhitic, antianteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminanteminantem
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   contact
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      spondyloarthropathies, systemic sclerosis, idiopathic inflammatory myopathies, Sjogren's syndrome, systemic vasculitis, sarcoidosis, autoimmune haemolytic anaemia, autoimmune or immune-mediated skin diseases including bullous skin diseases, erythema multiforme and contact dermatitis, psoriasis, lymphadenopathy, splenomegaly and leukopaenia. The present sequence encodes a human PRO protein from the present invention.
                                                                                                                                               antianaemic; antiarthritic; antiinflammatory; antipsoriatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         antirheumatic, dermatological, immunostimulant, immunosuppressive, osteopathic and vasotropic activities. (I) and (VI) are useful for diagnosing an immune related disease in a mammal. (II) is useful for diagnosing an inflammatory immune response in a mammal. (VI) is useful for determining the presence of (I) in a sample suspected of containing related disorder chose from rheumatorial arthritis, osteoarthritis, juvenile chronic arthritis, systemic lupus exythemicsis.
                                                                                                                                                                                                                                                                                           spondyloarthropathy; system of clerosis; idiopathic inflammatory myopathy; Sjogran's syndrome; systemic vasculitis; sarcoidosis; autoimmune haemolytic anaemia; autoimmune disease; immune-mediated skin disease; bullous skin disease; erythema multiforme; contact dermatitis; psoriasis; lymphadenopathy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New isolated PRO polypeptide e.g. PRO37544, PRO69493, PRO87327 etc, capable of stimulating an immune response, useful for treating diseases such as rheumatoid arthritis, psoriasis, and leukopenia.
                                                                                                                                                                                                                                      ostecarthritis;
                                                                                                                                                                           antirheumatic; dermatological; immunostimulant; immunosuppressive; osteopathic; vasotropic; immune related disease; inflammatory immune responses; rheumatoid arthritis; osteoarthritis; uvenile chronic arthritis; systemic lupus erythematosus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Wood WI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Schoenfeld J,
                                                                                    Human PRO244 encoding cDNA SEQ ID NO:133.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 2; SEQ ID NO 133; 326pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Wu TD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                   splenomegaly; leukopaenia; gene; ss
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Clark H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12-NOV-2003; 2003WO-US036002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    12-NOV-2002; 2002US-0425931P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (GETH ) GENENTECH INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Abbas A, Bodary S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2004-420080/39.
P-PSDB; ADO24495.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO2004043397-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    27-MAY-2004.
```

Mon

```
WPI; 2001-168860/17.
P-PSDB; AAB74697.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            17-AUG-1999;
09-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Yue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     12-JUN-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             22-FEB-2001
                                                                                                                                                                                                                                                                                         1291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1550
                                                                                                                    1192
                                                                                                                                                     1211
                                                                                                                                                                                                                                                                                                                                                          1351
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAF81743;
                                                  1132
                                                                                    1151
                                                                                                                                                                                      1252
                                                                                                                                                                                                                                                                                                                        1371
                                                                                                                                                                                                                                                                                                                                                                                                                             1406
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAF81743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Baughn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF81743
AAF
                   8 6
                                                                                                         g
                                                                                                                                                                              g
                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                    윰
                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                  ò
                                                                                                                                                 ò
                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGTITIAAATGTTATAATCATGTTACTGGCTGAAGTGCATTTTCTCTCTACGTTAGTCT 1011
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1072 TTTAGTGTTCGTATGAAAGTACAGGGACACGGAGCCAAGACAGAGTCTAGCAAAGAAGGG 1131
                                                                                                  146
                                                                                                                                                                     206
                                                                                                                                                                                                                                        266
                                                                                                                                                                                                                                                                         291
                                                                                                                                   174
                                                                                                                                                                                                      231
                                                                                                                                                                                                                                                                                                         323
                                                                                                                                                                                                                                                                                                                                        351
                                                                                                                                                                                                                                                                                                                                                                           383
                                                                                                                                                                                                                                                                                                                                                                                                             411
                                                                                                                                                                                                                                                                                                                                                                                                                                              443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            471
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               531
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  591
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     651
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      711
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       771
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          831
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           828
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           891
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGAGAAGGAAAAAGGCAGCAGGAAAAAAGGAAGAATTCAACCAAATCGCCTGC
                                                                                                                                ATCCCACCACACAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC
                                                                                                                                                                                                 AACACAATGCACAGAGGAAGGATGCTTC---TCTTCCCAAATGTTCTTATGGACTGTTGC
                                                                                                                                                                                                                                      CGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACCAGATGTGTCGTAGTATCG
                                                                                                                                                                                                                                                                     researcecarectarirereagiecererireareaceagarerereacarrires
                                                                                                                                                                                                                                                                                                       CAGCTCTCAAA - - - TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC
                                                                                                                                                                                                                                                                                                                                        carcitricaaaccreigargaaaaaagritrcaecraccreagaaitricacagaecreic
                                                                                                                                                                                                                                                                                                                                                                          CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA
                                                                                                                                                                                                                                                                                                                                                                                                         CTGCTACAATTATGGATCAGGTCAAGAATTGTTGTCCATTGAACTGGGAATATTT
                                                                                                                                                                                                                                                                                                                                                                                                                                           TCAATCTAGTTGTTATTTTTCTCTACGACAACCTTGACCTGGTCAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            rcaarccagcracracricrirircracrgacaccacricgegcgrraagrirraagaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAACTCACAGGAGGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTGGACTGACAGGTGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGGGGAGCCCAACAATATAGTTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGGGAGCCCAACAACAACATAGCTACCCTGGAGGACTGTGCCACCATGAGAGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACAACTCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAATCCAACATAAGAAATAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAAAAAGACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GTTCCCATTGCTAAAAGTCCACAGCATTGTCTGATGG------TCTTGCCATAACCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AAAGATCTCTTTTTAGACTGTACAGATCAATTCTCTAACAAATGCAACAAGAAGAAGGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CAGGICCICITCCCAGAATTTACAAAGCAATTCATACCTTTTGCTACATTTGCCTCATTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATTCTCCCTTTTCACATCTGTCTTGCACATCTGTCTTGCTCATGAGGAATTGATATGAAGGA
                                                                    Gaps
                                   Length 2143;
                                                                 99
 0 Other;
                               Score 456.2; DB 12; Length
Pred. No. 5.7e-98;
0; Mismatches 488; Indels
T; 0 U;
 G; 675
C; 409
588 A; 471
                               Query Match
Best Local Similarity 62.3%;
Matches 915; Conservative
BP;
2143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             952
 Sequence
                                                                                                  87
                                                                                                                                                                     147
                                                                                                                                                                                                                                                                                                                                                                                                           352
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           832
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1012
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1031
                                                                                                                                   115
                                                                                                                                                                                                   175
                                                                                                                                                                                                                                      207
                                                                                                                                                                                                                                                                     232
                                                                                                                                                                                                                                                                                                                                       292
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                971
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            412
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  532
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   592
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    652
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        772
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            859
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               919
                                                                                                                                                                                                                                                                                                                                                                        324
                                                                                                                                                                                                                                                                                                                                                                                                                                           384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               472
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     712
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      744
S
                                                                                                  ð
                                                                                                                                셤
                                                                                                                                                                 ઠે
                                                                                                                                                                                            g
                                                                                                                                                                                                                                                              음
상
                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                      8 6 6 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6 6 6 6 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6 6 6 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8 & B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              $ 8 $
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  q
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       요
                                                                                                                                                                                                                          ò
```

```
1210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1549
                                                       GATTTTGGAAGGTGCCTTCCAAAATCTCCTGAATCCGGGCTCTGTAGCAGGTCCTCTC
                                                                                                                                                                                                                                                                                             -TICCIGGAGCCCCATTITICICIGITCTICITICIAIAAC----IGGATTICACCTGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1431 ATCCCTGGGGCTTCCTTTGCTCTGCCTTATTTTCAATTGAATGGATCTCACCAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CTTGTATCTACTGCGCAAGTAGAACCTGCTCAGTAGGTTCAAAGTGAAATTATTTAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1491 TTTGTATCTATTGCTCAGCTAGGACCCGAGTCCAATAGTCAATTT-ATTCTAAGCGAACA
AGAGGTAGAAAGCAGATGTCTGTATAAAGAGACTTTAATGGTCACTATGTCATCCTGTTC
                                                                                                                      TITCTACATCCTTGGCTCTAGCTTATCTATCAGTACATAGATCACTTCTGTGTTCT
                                                                                                                                                                                    rriciaecircieacaagicreicricircricerricarircaracerriaicricaec
                                                                                                                                                                                                                                                  ------ACAGTGAGGAAGATGCATCTTTGAGTCTT
                                                                                                                                                                                                                                                                                                                                                                                  ------CAGCAAGGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                          1312 GAAACTTA-TTCCTGCTCAGAATACCGGTGTGGCCTTTCTGGCTACAGGCCTCCACTGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TCTCCATATGGAAAGGCCGGTCAAACTTCAGTTCCTAACAGATTGTGATCTAGTCCACTC
                                                                                                                                                                                                                                                                                                                                                                            1243 TAAACTTACCTGCGCTTGGGAGAATGGCATGGCCTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1494
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TTCATGTTCACATTTTTCTGTCTCAGGAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TTCATCTCCACACTTTCCTGTCTCAAGCC
                                                                                                                                                                                                                                                  CCA-----
```

968 (first entry) CDNA; standard;

BP.

Human membrane associated protein MEMAP-3 encoding cDNA

Human; membrane associated protein; MENAP; diagnosis; cytostatic; antilnflammatory; anticonvulsant; immunosuppressive; antidiarrheic; antiarteriosclerotic; gene therapy; cell proliferative disorder; autoimmune disorder; inflammatory disorder; neurological disorder; epilepsy; diarrhoea; se.

WO200112662-A2.

14-AUG-2000; 2000WO-US022315

99US-0149641P.

GENOMICS (INCY-) INCYTE

Σ, Azimzai ž Burford ò Bandman ΰ YT, Bandme Patterson Tang DAM, £,4

Isolated polypeptide with a human membrane associated protein sequence is useful for the diagnosis, prevention and treatment of cell proliferative, autoimmune/inflammatory, neurological and gastrointestinal disorders.

```
The present invention relates to hepatic-fibrosis disease markers haftpeois-bargolar) and related proceins (ADF9063-ADF9091). The ABF9063-ADF90917). The sequences are useful for detecting and treating hepatic fibrosis caused by alcohol consumption, virus infection, etc., and the associated chronic hepaticis, etc. leading to liver cirrhosis and hepatic carcinoma. The markers allow the cause of hepatic fibrosis to be clarified (diagnostic precision), so more suitable treatments can be developed and given.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACAACTCAA 841
                                                                                                                                                 ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAATCCAACATAAGAAAATAT 858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     antibodies, useful for improved diagnosis, screening and developing drugs to treat hepatitis, to control cirrhosis and carcinoma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AACACAATGCACAGAGGAGGATGCTTC---TCTTCCCAAATGTTCTTATGGACTGTTGC 241
                                                                                                                                                                                        GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ATCCCACCACACAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC
                                                                                                                                                                                                                                 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          marker; chronic hepatitis; liver cirrhosis; human; ds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Hepatic fibrosis disease markers comprising polynucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 976 BP; 317 A; 197 C; 206 G; 256 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       215;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      marker SEQ ID 200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 441; DB 10;
Pred. No. 1.8e-94;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Claim 1; SEQ ID NO 200; 313pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human hepatic-fibrosis disease
                                                                                                                                                                                                                                                                                                                                                                                Hb.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11-MAR-2002; 2002JP-00065013.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17.5%;
73.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11-MAR-2002; 2002JP-00065013.
                                                                                                                                                                                                                                                                                                                                                                                standard; DNA; 976
                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (SUMU ) SUMITOMO SEIYAKU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            611; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2003-821598/77.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hepatic fibrosis; m
hepatic carcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JP2003259877-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             26-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16-SEP-2003.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    147
                                                                                                           782
                                                                                                                                                                                          842
                                                                                                                                                                                                                                   859
                                                                                                                                                                                                                                                                           902
                                                                                                                                                                                                                                                                                                                                                                                ADF90738
                                                                                                                                                                                                                                                                                                                                                                                                                       ADF90738;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          185
                         722
                                                                  744
                                                                                                                                                   799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Loca
Matches
                                                                                                                                                                                                                                                                                                                                     RESULT 5
                                                                                                                                                                                                                                                                                                                                                             ADF90738
                         유
                                                       ò
                                                                                                    g
                                                                                                                                                 ò
                                                                                                                                                                                    a
                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                       AAF81741 to AAF81777 encode the human membrane associated proteins (MEMAP) given in AAB74695 to AAB74731. MEMAPS have cytostatic, antidiarmatory, anticonvulsant, immunosuppressive, antidiarnheic and antidiarmatory, anticonvulsant, immunosuppressive, antidiarnheic and antidiarmatory, anticonvulsant, immunosuppressive, antidiarnheic and antidiar antidiar attentiosclerotic activities, which can be used in gene therapy.

MEMAPs and agonist of MEMAPs can be used to treat a disease or condition associated with decreased expression of functional MEMAP. These disorders include cell overexpression of functional MEMAP. These disorders include cell disorders. The MEMAP polyuuclectides and proteins are also used for the disorders. Inflammation, atherosclerosis, epilepsy and diarrhoea. MEMAP proteins can be used to screen for compounds which specifically bind memAP including antibodies, oligonuclectides, proteins and small condecules. MEMAP proteins can be used to provide information concerning human disease. Anti-MEMAP antibodies are useful in immunoassays for the cancer of MEMAP protein and can be used as antagonists to treat or prevent a disorder associated with MEMAP. Polymuclectides encoding MEMAP can be delivered to target cells with genetic abnormalities with respect can be delivered to target cells with genetic abnormalities with respect to the meman and can be delivered to treat or prevent a disorder associated with meman adjected with meman adjected with meman adjected with meman adjected with meman adjected with meman adjected with meman adjected with meman adjected with meman adjected with meman adjected with meman adjected with meman adjected with meman adjected with meman adjected with meman adjected with meman adjected associated with meman adjected associated with meman adjected associated with meman adjected associated with meman adjected associated with meman adjected associated with a disorder associated with a disorder associated or prevent a disorder associated with genetic abnormalities with respect
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ų.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               662 AGGGAGCCCAACAACATAGCTACCTGGAGGACTGTGCCACCATGAGAGACTCTTCAAA 721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGAGAGAGAAACAAAAAACCAAAGAGAGAGAAAAAATGAATTCATCTAAATCATCTGA 184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CAGCTCTCAAA - - - TITCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC 323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            602 GGGTCAGTGGCAATGGGTGGACGGCACACCTTTGACAAAGTCTCTGAGCTTCTGGGATGT 661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      584 CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGT 743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              185 AACACAATGCACAGAGAGATGCTTC---TCTTCCCAAATGTTCTATGGACTGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              242 TGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATCACCAGATGTGTTGTGACATTTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CATCTTTCAAACCTGTGATGAGAAAAGTTTTCAGCTACCTGAGAATTTCACAGAGCTCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      147 ATCCCACCACACAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGTTGTCCCATTGAACTGGGAATATTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TCAATCTAGTTGTTATTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTGGACTGACAGACCAGGTGGTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TTCCTACAAGAACCTAAAATGAGAGAGTTTTTTATTGGACTGTCAGACCAGGTTGTCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACCAGATGTGGTAACATATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              rcaarccaecriscracricrirricracrescacrirricrisesses
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              482 crecrcaeccarececercaecreerecrarrarcaacreacaesaesaesaarrecr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       624 TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 968;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 968 BP; 314 A; 197 C; 205 G; 252 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 441; DB 4; Length 96.
Pred. No. 1.8e-94;
0; Mismatches 215; Indels
                         Page 151; 173pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 73.0%;
Matches 611; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             302
                         Example;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        564
    유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
```

Gaps

11;

Indels

Length 976;

Homo sapiens.

ઠે a õ 셤 a ò g

ò

유 Š g ઠે 셤 ઠે 유

δ

```
ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             윰
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        prevention; immune disorder; immunodeficiency; autoimmune disorder; prevention; immune disorder; haematological disorder; haematological disorder; haemostatic disorder; thrombolytic disorder; haematological disorder; haemostatic disorder; thrombolytic disorder; haematological disorder; tumour; apoptotic disorder; respiratory disorder; angiogenic disorder; neovascularisation; neurological disorder; endocrine disorder; netections disease; gastrointestinal disorder; system disorder; infections disease; chemotaxis; gene therapy; antibody therapy; drug targeting; chemotaxis; gene therapy; antibody therapy; drug targeting; chemotaxis; gene therapy; antibody therapy; antiallammatory; nephrotropic; cardiant; antiallergic; anti-HIV; antirheumatic; antiarthritic; antiallergic; anti-HIV; antirheumatic; antiarthritic; antibacterial; thyromimetic; gene; ss.
                                                                                                                                                                                                                                                           443
                                                                                                                                                                                                                                                                                                                                                               503
                                                                                                                                                                                                                                                                                                                                                                                                               541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   563
                                                                                                                                                   CTGCTACAGTGAGGCATCAGGTTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA 383
                                                                                                                                                                                                        421
                                                                                                                                                                                                                                                                                                             481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         721
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAATCCAACATAAGAAAATAT 858
     301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATGTGTAAAGAAGGAAGAAGAACATGGCCACACCCCACCGCCCCACGAGAATTTG 901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAGA 915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                rececreaacircaaaeacircaraaeiarriierracicreararaaaara 958
TGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATCACCAGATGTGTTGTGACATTTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CCCAAGGCAAAATTGGAATGATGTAACCTGTTTCCTCAATTATTTTCGGATTTGTGAAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACAACTCAA
                                                  CAGCTCTCAAA - - - TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC
                                                                                            CATCTTTCAAACCTGTGATGAGAAAAAGTTTCAGCTACCTGAGAATTTCACAGAGCTCTC
                                                                                                                                                                                                   crecracaarrargearcagerreagreagaarrererereragaacregeaararr
                                                                                                                                                                                                                                                        TCAATCTAGTTGTTATTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTATAAAGAA
                                                                                                                                                                                                                                                                                                     rcaarccaecrecracrirrirricracreacaccarriccreesecerraecriraaeaa
                                                                                                                                                                                                                                                                                                                                                            TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                               CTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAACTCACAGGAGGAGGAGCAGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITICGCACAAAATCTAAAAGGAAAGAGTTTTATATTGGACTGACAGACCAGGTGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GGGTCAGTGGCAATGGGTGGACGCCACCTTTGACAAGTCTCTGAGCTTCTGGGATGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGGGGAGCCCAACATAGCTACCCTGGAGGACTGTGCCACCATGAGAGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CD-like molecule; cluster of differentiation; diagnosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CD-like molecule HYAAM43 cDNA, SEQ ID NO:99.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ВЪ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADR41300 standard; cDNA; 990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      07-OCT-2004
                                                  267
                                                                                                    302
                                                                                                                                                   324
                                                                                                                                                                                                      362
                                                                                                                                                                                                                                                        384
                                                                                                                                                                                                                                                                                                       422
                                                                                                                                                                                                                                                                                                                                                            444
                                                                                                                                                                                                                                                                                                                                                                                                            482
                                                                                                                                                                                                                                                                                                                                                                                                                                                              504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      662
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           722
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               782
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   859
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   902
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADR41300
```

셤

ò

g

ઠે

셤

ð

```
ų.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  408
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            708
                                                                                                                                                                                                                                                          Novel polynucleotides and polypeptides useful for treating, preventing or ameliorating cardiovascular, renal, neurovascular, and autoimmune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                228
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            288
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       348
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             468
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         528
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    588
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                648
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         584 CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT 743
                                                                                                                                                                                                                                                                                                                                                    The invention relates to 167 novel human CD (cluster of differentiation) like molecules (ADR41388-ADR41563) and to CDNAs encoding them (seqid:11)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGGGGAGCCCAACAACATAGCTACCCTGGAGGACTGTGCCACCATGAGAGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATCCCACCACACAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CAGCTCTCAAA---TTTCCGGGCAGAACTTACAGCCACATAGAAAATATTAAGGAGCTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CATCTTTCAAACCTGTGATGAGAAAAGTTTCAGCTACCTGAGAATTTCACAGAGCTCTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  creciacaarrarecarcaecricaercaeaarrerrerecarreaacreecaararr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GGGTCAGTGGCAATGGGTGGACGCCACACCTTTGACAAAGTCTCTGAGCTTCTGGGATGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               aacacaargcacadagagagargcrrc---rcrrcccaaargrrcrrargaacrgrrgc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACCAGATGTGTCGTAACATATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           229 researcecearceratricicasisecretricareaceasarsististeaearrice
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TCAATCTAGTTGTTATTTTTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCAATCCAGCTGCTACTTCTTTCTACTGACACCATTTCCTGGGCGTTAAGGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         crecreaecearesecreacereserestrareaecreaesesesesesesesesereer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTTGGACTGACAGACCAGGTGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                            11;
                                                                                                                                                                                                                                                                                                                                                                                                                           17.5%; Score 441; DB 7; Length 990; 73.0%; Pred. No. 1.8e-94; Live 0; Mismatches 215; Indels
                                                                                                                                                                                                                                                                                                                                                                                                Sequence 990 BP; 342 A; 192 C; 206 G; 249 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                      Claim 4; SEQ ID NO 99; 1243pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                      25-SEP-2001; 2001WO-US029838
                                                                                                                      26-SEP-2000; 2000US-0235484P
                                                                                                                                                                                                                                                                                                                                                                                                                                          Local Similaricy
nes 611; Conservative
                                                                                                                                                  (HUMA-) HUMAN GENOME
                                                                                                                                                                                                            WPI; 2002-405050/43.
P-PSDB; ADR41476.
                                                                                                                                                                                CA, Birse CE,
                             WO200226930-A2
                                                           04-APR-2002
                                                                                                                                                                                                                                                                                        disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  349 (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                172
                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       289
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         469
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                589
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            649
                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Loca
Matches (
                                                                                                                                                                                Rosen
셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
```

```
CAGCICICAAA---TITCCGGGCAGAACTIACAGCCACAIAGAAAAIAITAAGGAGGITIC
97US-0063734P.
97US-0063735P.
97US-0064215P.
97US-00642103P.
97US-0064248P.
97US-0064248P.
97US-0064248P.
97US-0065846P.
97US-006583P.
97US-0065633P.
                                                                                                                   97US-0066453P.
97US-0066466P.
97US-0066511P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     17.5%;
72.9%;
                                                                                                                                               97US-0066770P
                                                                                                                                                       97US-0066772P
                                                                                                                                                                 97US-0066840P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         610; Conservative
                                                                                                                                                                                   (GETH ) GENENTECH INC.
                                                                                                                                                                                                     Gurney AL,
                                                                                                                                                                                                                     WPI; 1999-229533/19.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Local Similarity
                                                                                                                                                                                                                               P-PSDB; AAY13403
          29-OCT-1997;
29-OCT-1997;
29-OCT-1997;
31-OCT-1997;
31-OCT-1997;
03-NOV-1997;
                                                                                          18-NOV-1997;
21-NOV-1997;
21-NOV-1997;
                                                                                                                                                        24-NOV-1997;
25-NOV-1997;
                                                                        12-NOV-1997;
                                                                                                                    24-NOV-1997;
                                                                                                                                      24-NOV-1997
                                                                                                                                               24-NOV-1997
                                                                                                                                                                                                    Wood WI,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
  ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           日
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC 798
                                              769 GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACAACTCAA 828
                                                               ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAATCCAACATAAGAAAATAT 858
                                                                                                                                                                                                                                      Secreted protein; transmembrane protein; human; enterocolitis; Callinger-Ellison syndrome; gastrointestinal ulceration; congenital microvillus atrophy; skin disease; cell growth; abnormal keratinocyte differentiation; psoriasis; epithelial cancer; parkinson; disease; ALS; neuropathy; fibromodulin; dermal scarring; Usher Syndrome; Atrophia areata; anti-thrombotic; wound healing; tissue repair; ss.
                                                                                                  CTATCAGGCATCAGAAGGACTGCACATGTATTACTGGGACATAAGTAAAAAGA 915
                                                                                                                   889 TGCGCTGAACTTCAAAGGACTTCATAAGTATTTGTTACTCTCGATATAAAATA 945
                                                                                 829 ATGTGTAAAGAAGGAAGAGCAAGAACATGGCCACCCACCGCCCCCACACGAGAAATTTG
                                                                                                                                                                                                                     Protein PRO244 cDNA clone DNA35668-1171.
                                                                                                                                                                 BP.
                                                                                                                                                                                                                                                                                                                                                                                  970S-0059113P
970S-0059113P
970S-0059111P
970S-0059121P
970S-0059124P
970S-0059124P
970S-005926P
970S-0052285P
970S-0062285P
970S-0062285P
970S-006312P
970S-0063121P
970S-0063121P
970S-0063121P
970S-0063121P
970S-0063121P
970S-0063121P
970S-0063121P
970S-0063121P
970S-0063121P
970S-0063121P
970S-0063121P
970S-0063121P
970S-0063121P
970S-0063121P
970S-0063124P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          97US-0063435P.
97US-0063704P.
97US-0063732P.
                                                                                                                                                                 AAX52274 standard; DNA; 997
                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                               WO9914328-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                         18-SEP-1997;
17-0CT-1997;
17-0CT-1997;
24-0CT-1997;
27-0CT-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          29-OCT-1997;
29-OCT-1997;
29-OCT-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28-OCT-1997;
28-OCT-1997;
28-OCT-1997;
28-OCT-1997;
                                                                                                                                                                                                     25-JUN-1999
                                                                                                                                                                                                                                                                                                                                                 25-MAR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                 .7-SEP-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                         17-SEP-1997
                                                                                                  829
                                                                799
                                                                                                                                                                                  AAX52274;
                            744
                                                                                                                                              RESULT 7
                                                                                                                                                       AAX52274
                                                                                                                                                                 В
                                                                               셤
                                                                                                  ò
                                                                                                                   용
                            ð
                                                                ઠ
```

```
AXX52213-74 encode secreted and transmembrane human proteins, and are obtained from cDNA libraries prepared from fetal lung, fetal kidney, cetal brain, fetal liver and fetal retina. The encoded polypeptides have grecific uses based on their homology to known polypeptides, e.g. PRO211 and PRO217 can be used for disorders associated with the preservation and maintenance of gastroinestinal mucosa and the repair of acute and chronic mucosal lesions (e.g. entercoolitis, Zollinger-Ellison syndrome, gastrointestinal ulceration and congenital microvillus arrophy), skin diseases associated with abnormal Reratinocyte differentiation (e.g. psoriasis, epithelial cancers such as lung squamous cell carcinoma of the ulva and gliomas), potent effects on cell growth and development, diseases related to growth or survival of nerve cells including process are as a survival of nerve cells including process can be used as for fibromodulin, e.g. for reducing dermal scring, process and an anti-thrombotic agent; process for anti-tumor drugs process be used as an anti-thrombotic agent; process process and portions may be used as an enterpair and healing and tissue repair; process can be used for treating problems of the kidney, uterus, endometrium, can be used for related tissue, e.g. in the heart of genital tract
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      69 AGAGAGAGAAACAAAAACCAAAGAGAGAGAAAAAATGAATTCATCTAAATCATCTGA 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 129 AACACAATGCACAGAGAGAGGATGCTTC---TCTTCCCAAATGTTCTTATGGACTGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   186 researcecearecraritereasisecristricareaceasisteristrearea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     147 ATCCCACCACACAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCGGACGATAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                207 CGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACCAGATGTGTGTCGTAACATATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
                                                                                                                                                                                                               New isolated human genes and polypeptides used in, e.g. treatment of gastrointestinal ulceration.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11;
    <u>ن</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 439.4; DB 2; Length 997;
Pred. No. 4.3e-94;
    Yuan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 997 BP; 376 A; 189 C; 200 G; 232 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
    ۵,
    Chen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0; Mismatches 216;
    Pennica D,
Goddard A,
                                                                                                                                                                                                                                                                                                                                                         Claim 2; Fig 121; 320pp; English
```

```
16-SEP-1998;
 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠ
                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                               545
                                            365
                                                                                       425
                                                                                                                                                                                                                            605
                                                                                                                                                                                                                                                                        665
                                                                                                                                                                                                                                                                                                                   725
CATCTTTCAAACCTGTGAGAAAAAGTTTCAGCTACCTGAGAATTTCACAGAGCTCTC 305
                                                                  443
                                                                                                               503
                                                                                                                                    485
                                                                                                                                                          563
                                                                                                                                                                                                     623
                                                                                                                                                                                                                                                  683
                                                                                                                                                                                                                                                                                              743
                                                                                                                                                                                                                                                                                                                                          GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                                                                                                                                GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACAACTCAA 785
                                                                                                                                                                                                                                                                                                                                                                                      ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAATCCAACATAAGAAAATAT 858
                                                                                                                                                                                                                                                                                                                                                                                                          antiinflamatory; antiulcer; cytostatic; antipsoriatic; antiparkinsonian; nootropic; neuroprotective; vasotropic; chemotaxic; angiogenic; neuroprotective; vasotropic; chemotaxic; angiogenic; antiarthritic; antirheumatic; antiarthritic; antirheumatic; antiarthritic; antirheumatic; thrombolytic; immunomodulator; enterocolitis; Zollinger-Ellison syndrome; gastrointestinal ulceration; psoriasis; cancer; Parkinson's disease; Alzhaimer's, ALS; neuropathy; dermal scarring; wound healing; network repair; thrombosis; bone; cartilage formation; angiogenesis; asthma; rheumatoid arthritis; multiple scalerosis; inflammatory disorder; diabetes; stroke; gene therapy; transgenic; PRO; human; ss; gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                             846 TGCGCTGAACTTCAAAGGACTTCATAAGTATTTGTTACTCTGATACAAATAAAAATA 902
                                 CTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGTTGTTGTTGTTGAACTGGGAATATTT
                                                                                                                                                                                                                 CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA
                                                                 TCAATCTAGTTGTTATTTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA
                                                                                      rcaarccaccracracrirricracreacaccarricciececerraagriraaagaa
                                                                                                              TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT
                                                                                                                               TTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTTGGACTGACAGACCAGGTGGTGGA
                                                                                                                                                                       GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                                                                                                                                                                                                 TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA
                                                                                                                                                                                                                                                                       606 AGGGGAGCCCAACATAGCTACCCTGGAGGACTGTGCCACCATGAGAGACTCTTCAAA
                                                                                                                                                                                                                                                                                             CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT
                                                                                                                                                                                                                                                                                                                   CCCAAGGCAAAATTGGAATGAACCTGTTTCCTCAATTATTTTCGGATTTGTGAAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                859 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADC78688 standard; cDNA; 997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99WO-US021090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human PRO244 cDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-JAN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23-MAR-2000
                                                                 384
                                                                                                                                                                               486
                                                                                                                                                                                                                          546
                                                                                                                                                                                                                                                 624
246
                                                                                                               444
                                                                                                                                                         504
                                                                                                                                                                                                                                                                                                                  999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADC78688;
                      324
                                                                                                                                   426
                                                                                                                                                                                                     564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       요
                                                         ઠે
                                                                                 g
                                                                                                            ઠે
                                                                                                                            g
                                                                                                                                                 ઠે
                                                                                                                                                                         g
                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                        Š
                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                    જે
```

```
The invention relates to a novel nucleic acid encoding a PRO polypeptide. The polypeptides and polynuclectides of the invention may be useful as research tools and as therapeutics for treating enterocolitis, Zollinger-Bilison syndrome, gastrointestinal ulceration, psoriasis, cancer, Parkinson's disease, Alzheimer's disease, ALS, neuropathies, dermal scarring and wound healing, nerve repair, thrombosis, bone and/or cartilage formation, anglogenesis, asthma, rheumatoid arthritis, multiple infertility, premature aging, AIDS, diabetes complications and stroke. The molecules may also be utilised during gene therapy procedures and transgenic animal production. The current sequence is that of the human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Novel nucleic acids encoding secreted and transmembrane polypeptides with homology, e.g. to growth and cancer-associated antigens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      69 agagagagagaacaaaaaccaaagagagagaaaaaargaarrcarcraarcarcrga 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGTTGTTGTTGTTGAACTGGAATATTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GGGTCAGTGGCAATGGGTGGACGCCACACCTTTGACAAAGTCTCTGAGCTTCTGGGATGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             129 Aacacaargcacagagagagagargcrrc---rcrrcccaaargrrcrrarggacrgrrgc
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 207 CGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACCAGATGTGTCGTAACATATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               186 recearcecarcerarirereacrecereirreareaceacarcierrereacarrice
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CAGCTCTCAAA---TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       486 TTCCTACAAGAAACCTAAAATGAGAGAGTTTTTTTTTTGACTGTCAGACCAGGTTGTCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGGGGAGCCCAACAATATAGTTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       606 AGGGGAGCCCAACAACATAGCTACCCTGGAGGACTGTGCCACCATGAGAGTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  147 ATCCCACCACACAGAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TCAATCTAGTTGTTATTTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                366 icaaiccaecrecracricriticracreacaccarricreeecerraacriraaeaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        444 TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            criecrical contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the contraction of the con
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITICGCACAAAATCTAAAAGGAAAGAGTTTTATATTTGGACTGACAGGCCAGGTGGTGGA
                                                                                                                                                                                            Ĭ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 997;
                                                                                                                                                                                            Wood
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 997 BP; 376 A; 189 C; 200 G; 232 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 17.5%; Score 439.4; DB 3; Length 72.9%; Pred. No. 4.3e-94; Artive 0; Mismatches 216; Indels
                                                                                                                                                                                            Ď
                                                                                                                                                                                            Pennica
                                                                                                                                                                                            Hillan K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 2; SEQ ID NO 376; 355pp; English.
                                                                                                                                                                                       Gurney AL,
98WO-US019330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRO CDNA of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                         (GETH ) GENENTECH INC
                                                                                                                                                                                                                                                                                                                                               WPI; 2000-271434/23.
                                                                                                                                                                                            Goddard A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local Similarity
tes 610; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                   P-PSDB; ADC78689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     546
                                                                                                                                                                                       Chen J,
Yuan J;
```

Mon Jun 13

g 8 d ò g ઠે a

```
GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACAACTCAA 785
                                                                         The present sequence is one of sixty one nucleic acids encoding novel secreted and transmembrane PRO polypeptides. The PRO polypeptides are useful for treating skin diseases (e.g. psoriasis), cancers (e.g. lung squamous cell carcinoma), gastrointestinal disorders (e.g. enterocolitis), neurodegenerative diseases (e.g. Alzhaimer's disease, Parkinson's disease), wound repair, cardiovascular disorders (e.g. endometrial bleeding ampiogenesis, ischaemias such as coronary ischaemia, atherosclerosis), inflammatory disorders (e.g. asthma, rheumatoid atherism multiple sclerosis), infertility, AIDS and diabetes and retinal disorders such as retinitis pigmentosum. The PRO nucleic acids have applications in molecular biology, including use as hybridization
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       carcirricaaaccrgrgargagaaaagrirrcagcraccrgagaarrrcacagagcrcrc 305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAAATCCAACATAAGAAAATAT 858
                                                                                                                                                                                                                                                                                                                                                                                                                           CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    606 Addecadeceaacaradecraecerecadeacrereceaecareacadacrerreaaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cccaaggcaaarriggaargargraaccrcrrrrccrcaarrrrrcggarrrigrgaar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC
                                                                                                                                                                                                                                                                                                                                                                                            AACACAATGCACAGAGAGAGGATGCTTC---TCTTCCCAAATGTTCTTATGGACTGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          egercagiegeaaregacegeacecacrerricacaaagierereagerieregearer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCAATCTAGTTGTTATTTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       rcaarccagcracrrcrrrrrrracracaccarrrrcragacacarrragacaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAACTCACAGGAGGAGGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTGGACTGACAGACCAGGTGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      rrccracaagaaaccraaaargagagarrrrrrrrrrarrggacrgrcagaccaggrrgrcga
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       624 TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ATCCCACCACACAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCCCTGGACGATAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACCAGATGTGTCGTAACATATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CAGCTCTCAAA---TTTCCGGGCAGACTTACAGCCACATAGAAATATTAAGGAGCTTTC
carcinoma) and neurodegenerative diseases (e.g. Alzheimer'
                                                                                                                                                                                                                                                                                                                             4; Length 997;
                                                                                                                                                                                                                                                                                             Sequence 997 BP; 376 A; 189 C; 200 G; 232 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                           17.5%; Score 439.4; DB 4; 72.9%; Pred. No. 4.3e-94; iive 0; Mismatches 216;
                                                                                                                                                                                                                                                              probes, and in chromosome and gene mapping
                                               Claim 2; Fig 121; 393pp; English.
                                                                                                                                                                                                                                                                                                                                         Local Similarity 72.9
nes 610; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                            69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     799
                                                                                                                                                                                                                                                                                                                                                                                                                                                             147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     726
                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       684
ò
                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sixty one nucleic acids encoding PRO polypeptides which are useful in the treatment of skin diseases (e.g. psoriasis), cancers (e.g. lung squamous
                                                                              GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                            GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACAACTCAA 785
                                                                                                                                              ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAATCCAACATAAGAAAATAT 858
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; PRO; dermatological; antipsoriatic; cytostatic; antiinflammatory; antiparkinsonian nootropic; neuroprotective; vulnerary; cardiant; antiangiogenic; vasotropic; antiasthmatic; antirheumatic; cancer; antiarthritic; antiinfertility; antidiabetic; antiviral; diabetes; ophthalmological; gene therapy; skin disease; gastrointestinal disorder; ischaemia; inflammation; ss.
                                                                                                                                                                                                               915
                                             cccaacccaaaarriccarcarcracricririccrcaarrarrricccaacarricraarr
               CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT
                                                                                                                                                                             Ä
                                                                                                                                                                                                           859 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAGA
                                                                                                                                                                                                                                        TGCGCTGAACTTCAAAGGACTTCATAAGTATTGTTACTCTGATACAAATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ferrara N;
ME, Goddard A
Kljavin IJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Tumas D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       , Eaton DL,
I, Gerritsen N
Hillan KJ, I
Stewart TA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Desnoyers L,
W, Gerber H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Botsteln o, Forber n
Fong S, Gao W, Gerber n
Grimaldi CJ, Gurney AL,
                                                                                                                                                                                                                                                                                                                               ВР
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 an J, Paoni NF,
Wood WI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       99US-0143048P.
99US-0145698P.
99US-0146222P.
99WO-US020594.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      99WO-US028214
99WO-US028313
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      99WO-US021547
99WO-US023089
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2000WO-US000219
                                                                                                                                                                                                                                                                                                                             AAF72432 standard; cDNA; 997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2000WO-US004414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         99WO-US020944
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99WO-US021090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        99WO-US028564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      99WO-US028565
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         99WO-US030095
                                                                                                                                                                                                                                                                                                                                                                                            entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2001-081051/09.
P-PSDB; AAB80271.
                                                                                                                                                                                                                                                                                                                                                                                            (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pan J,
                                                                                                                                                                                                                                                                                                                                                                                                                            Human PRO244 cDNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ashkenazi AJ,
Filvaroff E, F
Godowski PJ, G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO200104311-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      15-SEP-1999;
05-OCT-1999;
29-NOV-1999;
30-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mather JP, F
Williams PM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          22-FEB-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        26-JUL-1999;
28-JUL-1999;
08-SEP-1999;
13-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        05-JAN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        15-SEP-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       02-DEC-1999
02-DEC-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       16-DEC-1999
                                                                                                                                                                                                                                                                                                                                                                                            24-APR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20-DEC-1999
                                                                              744
                                                                                                                                           799
                                                                                                                                                                                                                                                                                                                                                            AAF72432;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo
```

146

Gaps

11;

206 185 266 245 323 383

443 425 503 485 725

798

743

563 545 605

683

```
624 TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA 683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGTTGTCCATTGAACTGGGAATATTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             87 AGAGAAGGAAAAAGGAAGAAAAAGGAAAAAAGGAAGAATGAATTCAACCAAATCGCCTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AGAGAGAGAGAAAAAAAACCAAAGAGAGAGAAAAAAAATGAATTCATCTAAATCATCTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACACAATGCACAGAGAGGATGCTTC---TCTTCCCAAATGTTCTTATGGACTGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                186 TGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATCACCAGATGTGTTGTGACATTTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            carcinicaaaccrgigargaaaaaagrincagcraccrgagaarnicacagagcrcic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      rcaarccaecrecracricrirricracreacecerricriesecerraagrirraagaa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TITICGCACAAAATCTAAAAGGAAAGAGTTTTATATTGGACTGACAGACCAGGTGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           riccracagaaaccraaargagagarrirririrrigacrgrcagaccaggrcaga
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GGGTCAGTGGCAATGGGAAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GGGTCAGTGGCAATGGGTGGACGCCACCTTTGACAAAGTCTCTGAGCTTCTGGGATGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            147 ATCCCACCACACAGAGAGAGAGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACCAGATGTGTCGTAACATATCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CAGCTCTCAAA---TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCAATCTAGTTGTTATTTTTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             444 TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAACTCACAGGAGGAGGAGCAGGAATTCCT
                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                      Baker Ki
Pan J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                쉽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             .
B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              유
PRO polypeptide; mammal; tumour; cancer; human; cattle; horse; sheep; ss; dog; cat; pig; goat; rabbit; tumour necrosis factor alpha; TNF-alpha; blood; chondrocyte cell; cell proliferation; cell differentiation; colon; adrenal; lung; breast; prostate; rectum; cervix; liver; genetic disorder;
                                                            859 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAGA 915
                                                                                     TGCGCTGAACTTCAAAGGACTTCATAAGTATTTGTTACTCTGATACAATAAAAATA 902
                                                                                                                                                                                                                                                                                                                       Human DNA encoding PRO polypeptide sequence #12.
                                                                                                                                                                                                   AAS45936 standard; cDNA; 997 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2000WG-US008439.
2000US-0194449P.
2000US-0194647P.
2000US-0195975P.
2000US-019600P.
2000US-0196187P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2000US-0196820P.
2000US-0198121P.
2000US-0198385P.
2000US-0199397P.
2000US-0199550P.
2000US-0199564P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2000WO-US006884.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2000US-0191007P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2000US-0191314P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2000US-0193032P.
2000US-0193053P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2000WO-US005841
2000US-0187202P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2000WO-US015264
                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (GETH ) GENENTECH INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO200168848-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29-MAR-2000; 29-MAR-2000; 29-MAR-2000; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              30-MAR-2000;
04-APR-2000;
04-APR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          11-APR-2000; 2
11-APR-2000; 2
11-APR-2000; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11-APR-2000;
11-APR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           18-APR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18-APR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   25-APR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     25-APR-2000;
25-APR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           03-MAY-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30-MAY-2000;
02-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sapiens
                                                                                                                                                                                                                                                                               18-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                             PCR primer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20-SEP-2001
                                                                                                                                                                                                                                        AAS45936;
                                                                                               846
                                                                                                                                                         AASA545
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
AASA45
A
                                                                                       셤
                                                          ઠે
```

266 245 323

206

146

Gaps

11.

305

365

443

383

425 503

```
primers PAS45925-AAS46231 represent DNA molecules encoding and PCR primers for PRO polypeptides of the invention. The sequences of the presence of a tumour in a mammal by comparing the level of expression of a PRO polypeptide in a test sample of comparing the level of expression of a PRO polypeptide in a test sample of normal cells, whereby a cells from the animal and a control sample of normal cells, whereby a control in the mammal. Mammals include dogs, cate; cattle, horses, sheep, pigs, goats and rabbits but are preferably human. The polypeptides can be used to stimulate tumour necrosis factor (TNF) alpha release from human book when contacted with it. A specific polypeptide can be used to stimulate the proliferation of determine the presence of tumours and also susceptibility to tumour development, particularly adrenal, lung, colon, breast, prostate, rectal, cervical, or liver tumours, in mammalian subjects. The oligonucleotide probes specific for the PRO nucleic acids can be used for genetic analysis of individuals with genetic disorders
                                                                                                                                                                                                                                                                                                                            ů
                                                                                                                                                                                                                                                                       Novel nucleic acids encoding PRO polypeptides, used to diagnose the presence of tumors, such as prostate and breast tumors, in mammals and screen for modulators of the compounds.
    Gurney AL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       / Match 17.5%; Score 439.4; DB 4; Length 997; Local Similarity 72.9%; Pred. No. 4.3e-94; nes 610; Conservative 0; Mismatches 216; Indels 11;
    Ю,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 997 BP; 376 A; 189 C; 200 G; 232 T; 0 U; 0 Other;
Goddard A, Godowski
Wood WI, Zhang Z;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 2; Fig 23; 774pp; English.
o, Chen J, Desnoyers L
Smith V, Watanabe CK,
                                                                                                                                      WPI; 2001-602746/68.
P-PSDB; AAU29035.
```

```
The invention relates to an isolated nucleic acid with at least 80% nucleic acid sequence identity to a nucleotide sequence encoding one of 61 secreted/transmembrane polypeptides, or PRO polypeptides or encoding a PRO protein extracellular domain. Also included are a vector comprising the PRO nucleic acid, a host cell comprising the vector, producing a PRO polypeptide (by culturing the host cell for the expression of the PRO polypeptide, and recovering the PRO polypeptide from the cell culture), an isolated PRO polypeptide (having at least 80% sequence identity to: (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New transmembrane polypeptides and nucleic acids encoding the polypeptides, useful in gene therapy, in chromosome identification, as chromosome markers, in generating probes and in tissue typing.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Botstein D, Desnoyers L, Eaton DL, Ferrara N; Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A; Grimaldi JC, Gurney AL, Hillan KJ, Kljavin LJ; an J, Paoni NF, Roy MA, Stewart TA, Tumas D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 2; Fig 121; 484pp; English.
            97US-0063738P.
97US-0064215P.
97US-0064103P.
97US-0064248P.
97US-0065846P.
97US-0065846P.
97US-0065846P.
97US-0066364P.
97US-0066364P.
97US-0066364P.
97US-0066451P.
97US-0066451P.
97US-0066451P.
97US-0066454P.
97US-0066454P.
                                                                                                                                                                                                                                                                                                         99WO-US023089.
99WO-US028214.
99WO-US028313.
                                                                                                                                                                                                                         98WO-US019330.
98WO-US019437.
98WO-US025108.
                                                                                                                                                                                                                                                                                                                                                       99WO-US028564.
99WO-US028565.
99WO-US030095.
                                                                                                                                                                                                                                                                                                                                                                                                                 2000WO-US000219.
                                                                                                                                                                                                                                                                                                                                                                                                                                       22-FEB-2000; 2000WO-US004414.
24-FEB-2000; 2000WO-US005004.
02-MAR-2000; 2000WO-US005841.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20-MAR-2000; 2000WO-US007377
30-MAR-2000; 2000WO-US008439
22-MAY-2000; 2000WO-US014042
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28-JUL-2000; 2000WO-US020710
24-AUG-2000; 2000WO-US023328
18-SEP-2000; 2000US-00665350
                                                                                                                                                                                                                                                                                  99WO-US021090
99WO-US021547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2000WO-US015264
                                                                                                                                                                                                                                                             99WO-US020594
                                                                                                                                                                                                                                                                          99WO-US020944
                                                                                                                                                                                                                                                                                                                                            99WO-US028301
                                                                                                                                                                                                                                                                                                                                                                                          99WO-US030911
                                                                                                                                                                                                                                                                                                                                                                                                      99WO-US030999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pan J, Fur-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2003-329602/31.
P-PSDB; ABU71950.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ashkenazi A, E
Filvaroff E, I
Godowski PJ, C
Mather JP, Par
                                                                                                                                                                                                                                                                                                                                                                                                     20-DEC-1999;
05-JAN-2000;
11-FEB-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             02-JUN-2000;
            29-OCT-1997;
29-OCT-1997;
31-OCT-1997;
31-OCT-1997;
03-NOV-1997;
                                                                                                       18-NOV-1997;
21-NOV-1997;
21-NOV-1997;
                                                                                                                                           24-NOV-1997;
                                                                                                                                                                             24-NOV-1997;
                                                                                                                                                                                         24-NOV-1997;
                                                                                                                                                                                                                14-SEP-1998;
                                                                                                                                                                                                                           16-SEP-1998;
                                                                                                                                                                                                                                       17-SEP-1998;
                                                                                                                                                                                                                                                 01-DEC-1998;
08-SEP-1999;
                                                                                                                                                                                                                                                                                  15-SEP-1999;
                                                                                                                                                                                                                                                                                                         05-OCT-1999
                                                                                                                                                                                                                                                                                                                                 30-NOV-1999;
01-DEC-1999;
                                                                                                                                                                  24-NOV-1997
                                                                                            17-NOV-1997
  606 AGGGGAGCCCAACAACATAGCTACCCTGGAGACTGTGCCACCATGAGAGACTCTTCAAA 665
                                                                                                                                            cccaaddcaaaarriddaardaaccrorriccrcaarrarrricddarringrdaaar 725
                                                                                   GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                       GGTÄGGÄÄTÄÄÄTÜCÍTTGAÄCAÄÄGGAAÄTCTCTTTÄÄGAÄCÄGAAĞGCÄCAAČTCÄA 785
                                                                                                                              ATGCATGAAGAACAAGAGTGAATGTAATAACAACCAAAATCCAACATAAGAAAATAT 858
                                                                                                                                                                             859 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAGA 915
                                                                                                                                                                                          846 TGCGCTGAACTTCAAAGGACTTCATAAGTATTTGTTACTCTGATACAAATAAAAATA 902
                                   CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT
                                                                                                                                                                                                                                                                                                                                                        Human; 88; gene; secreted protein; transmembrane protein; PRO; gene therapy; chromosome identification; chromosome marker.
                                                                                                                                                                                                                                                                                                                                  Human cDNA for secreted/transmembrane protein PRO244
                                                                                                                                                                                                                                                             ACA60316 standard; cDNA; 997 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   970S-0059113P.
970S-0059113P.
970S-0059113P.
970S-0059121P.
970S-0059122P.
970S-0059122P.
970S-0059263P.
970S-0062285P.
970S-0062285P.
970S-0062285P.
970S-0062285P.
970S-0063124P.
970S-0063121P.
970S-0063121P.
970S-0063124P.
970S-0063124P.
970S-0063124P.
970S-0063124P.
970S-0063124P.
970S-0063124P.
970S-0063542P.
970S-0063542P.
970S-0063542P.
970S-0063542P.
970S-0063542P.
970S-0063542P.
970S-0063542P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                2001US-00904011
                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                 US2003003530-A1
                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         17-SEP-1997
17-SEP-1997
17-SEP-1997
18-SEP-1997
18-SEP-1997
18-SEP-1997
17-OCT-1997
24-OCT-1997
25-OCT-1997
26-OCT-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              29-OCT-1997;
29-OCT-1997;
29-OCT-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              11-JUL-2001;
                                                                                                                                                                                                                                                                                                           12-JUN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                        02-JAN-2003
                                                                                                       726
                                                                                                                                799
                                                                                                                                                                                                                                                                                     ACA60316;
                                    684
                                                          999
                                                                                   744
                                                        g
                                                                               ò
                                                                                                    g
                                                                                                                              ò
                                                                                                                                                    셤
                                                                                                                                                                            ò
                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                ሯ
```

us-10-812-620-1.rng

```
an amino acid sequence selected from the 61 PRO proteins; (b) an amino acid sequence encoded by a nucleic acid molecule deposited with an ATCC number (detailed in the specification); or (c) an extracellular domain of a PRO polypeptide lacking its associated signal peptide), a chimaeric molecule comprising a PRO polypeptide of fused to a heterologous amino acid sequence, an anti-PRO antibody, detecting a PRO245 or PRO1868 in a sample suspected of containing the polypeptide, linking a bioactive molecule to a cell expressing a PRO245 or PRO1868 unclear one biological activity of a cell expressing a PRO245 or PRO1868 unclear coids which encode PRO can be used to generate either transgenic animals or knock-out animals which may be used in the nucleic development and screening of therapeutically useful reagents. The nucleic acids may also be used in gene therapy, in chromosome identification, as chromosome markers, or in gene therapy, in chromosome identification, as chromosome markers, or in gene therapy, in chromosome identification, conclein an anolecular markers for protein electrophoresis, and the isolated nucleic acids may be used for recombinantly expressing those markers. The PRO polypeptides and nucleic acids may also be used in tissue typing. Anti-PRO antibodies are useful in diagnostic assays for PRO, and in affinity purification of PRO from recombinant cell culture or natural sequence encodes a PRO protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    146
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGAGAGAGAAACAAAAACCAAAGAGAGAGAAAAAAATGAATTCATCTAAATCATCTGA 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              147 ATCCCACCACACAGAGAGAGGATGCTTCAAAAACTCCCCAAGTGCTCCTGGACGATAGC 206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT 503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                606 AGGGAGCCCAACAACATAGCTACCCTGGAGGACTGTGCCACCATGAGAGCTCTTCAAA 665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CAGCTCTCAAA - - - TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TCAATCTAGTTGTTATTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAACTCACAGGAGGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TTTTCGCACAAAATCTAAAAGGAAAGACTTTTATATTGGACTGACAGACCAGGTGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Trccracaagaaaccraaaargagagacrirrrrarrggacrigrcagaccaggrigicga
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   546 GGGTCAGTGGCAATGGGTGGACGCCACCTTTGACAAAGTCTCTGAGCTTCTGGGATGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 / Match 17.5%; Score 439.4; DB 8; Length 997; Local Similarity 72.9%; Pred. No. 4.3e-94; les 610; Conservative 0; Mismatches 216; Indels 11;
                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 997 BP; 376 A; 189 C; 200 G; 232 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches 610; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 444
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              564
      ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ď
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8
```

999

```
726 GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACAACTCAA 785
                       799 ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAATCCAACATAAGAAATAT 858
                                              786 ATGTGTAAAGAAGGAAGAGCAAGAACATGGCCACACCCACGCCCCACACACGAGAATTTG 845
                                                                                                                                                                                                                                                                         chromosome mapping; gene mapping; tumour; adrenal; lung; colon; breast, prostate; rectal; cervical; liver; cancer; TNF-alpha; tumour necrosis factor-alpha; proliferation; differentiation; chondrocyte cell; bone disorder; cartilage disorder; sports injury; arthritis; cytostatic; antiarthritic; osteopathic; gene therapy; gene;
                                                                       859 CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAGA 915
                                                                                     846 TGCGCTGAACTTCAAAGGACTTCATAAGTATTTGTTACTCTGATACAAATAAAAATA 902
                                                                                                                                                                                                                                                              Human; PRO polypeptide; secreted protein; transmembrane protein;
                                                                                                                                                                                                                                     cDNA encoding human PRO polypeptide #12.
                                                                                                                                                            BP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              970S-0059263P.
970S-0059266P.
970S-0063220P.
970S-0063121P.
970S-0063121P.
970S-0063541P.
970S-0063541P.
970S-0063541P.
970S-0063541P.
970S-0063541P.
970S-0063541P.
970S-0063541P.
970S-0063734P.
970S-0063734P.
970S-0063734P.
970S-0063734P.
970S-0069425P.
970S-0069425P.
970S-0069425P.
970S-0069435P.
970S-00774649P.
970S-00774649P.
970S-0077649P.
970S-0077649P.
970S-0077649P.
970S-0077649P.
970S-0077649P.
970S-0077649P.
970S-0077649P.
970S-0077649P.
970S-0077649P.
970S-0077649P.
970S-0077649P.
                                                                                                                                                            ACA89386 standard; cDNA; 997
                                                                                                                                                                                                                                                                                                                                                                                                                                        01-JUL-2002; 2002US-00187597
                                                                                                                                                                                                            09-JUL-2003 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                        US2003036141-A1.
                                                                                                                                                                                                                                                                                                                                                               Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         24 OCT - 1997;
28 OCT - 1997;
28 OCT - 1997;
28 OCT - 1997;
29 OCT - 1997;
31 OCT - 1997;
31 OCT - 1997;
13 NOV - 1997;
24 NOV - 1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10-MAR-1998;
11-MAR-1998;
11-MAR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       -OCT-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              11-DEC-1997;
12-DEC-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           15-APR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                20-FEB-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        27-MAR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                31-MAR-1998
01-APR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 08-APR-1998
09-APR-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DEC-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18-DEC-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        08-APR-1998
                                                                                                                                                                                     ACA89386;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 24-NOV-
                                                                                                                                    RESULT 12
                                                                                                                                                 ACA89386
                                             셤
                                                                                                                                                              ò
                                                                                            g
                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCCAAGGCAAAATTGGAATGTAACCTGTTTCCTCAATTATTTTCGGATTTGTGAAAT 725
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT
```

```
Score 439.4; DB 8; Length 99
Pred. No. 4.3e-94;
0; Mismatches 216; Indels
                    9805-00910109-9805-00910109-9805-00910109-9805-00910109-9805-00910109-9805-00910109-9805-00910109-9805-00910109-9805-00910109-9805-00910109-9805-009910109-9805-009910109-9805-00991019-9805-0100664P-9805-0100664P-9805-0100664P-9805-0100664P-9805-0100664P-9805-0100664P-9805-0100664P-9805-0100664P-9805-0100664P-9805-0100664P-9805-0100664P-9805-0100664P-9805-0100664P-9805-0100664P-9805-0100664P-9805-0100664P-9805-0100664P-9805-0100664P-9805-0100664P-9805-0100664P-9805-0100664P-9805-010069P-9805-010069P-9805-010069P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-01010472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010104472P-9805-010
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9805-0101477P

9805-0101738P

9805-0101743P

9805-0101743P

9805-0101220P

9805-0102240P

9805-0102240P

9805-0102313P

9805-0102313P

9805-0102312P

9805-0102312P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
17.5%;
Best Local Similarity 72.9%;
Matches 610; Conservative (
26-JUN-1998;
26-JUN-1998;
01-JUL-1998;
02-JUL-1998;
02-JUL-1998;
02-JUL-1998;
02-JUL-1998;
02-JUL-1998;
04-AUG-1998;
10-AUG-1998;
117-AUG-1998;
17-AUG-1998;
17-AUG-1998;
17-AUG-1998;
18-AUG-1998;
18-AUG-1998;
26-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           24 - SEP - 1998;
24 - SEP - 1998;
24 - SEP - 1998;
25 - SEP - 1998;
26 - SEP - 1998;
29 - SEP - 1998;
29 - SEP - 1998;
30 - SEP - 1998;
30 - SEP - 1998;
30 - SEP - 1998;
30 - SEP - 1998;
30 - SEP - 1998;
30 - SEP - 1998;
31 - SEP - 1998;
31 - SEP - 1998;
31 - SEP - 1998;
31 - SEP - 1998;
31 - SEP - 1998;
31 - SEP - 1998;
31 - SEP - 1998;
31 - SEP - 1998;
31 - SEP - 1998;
31 - SEP - 1998;
31 - SEP - 1998;
31 - SEP - 1998;
31 - SEP - 1998;
31 - SEP - 1998;
31 - SEP - 1998;
31 - SEP - 1998;
31 - SEP - 1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  16-SEP-1998;
16-SEP-1998;
16-SEP-1998;
16-SEP-1998;
17-SEP-1998;
17-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18-SEP-1998;
18-SEP-1998;
18-SEP-1998;
23-SEP-1998;
23-SEP-1998;
23-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10-SEP-1998;
10-SEP-1998;
10-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 09-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   17-SEP-1998;
      ò
98US-0082569P-98US-0082569P-98US-0082704P-98US-0082704P-98US-008372P-98US-0083495P-98US-0083495P-98US-00834495P-98US-00834495P-98US-00834495P-98US-00834495P-98US-0084414P-98US-0084414P-98US-0084414P-98US-0084414P-98US-0084414P-98US-0084414P-98US-0084414P-98US-0084414P-98US-0084414P-98US-0084414P-98US-0084414P-98US-008812P-98US-008812P-98US-008812P-98US-008812P-98US-008814P-98US-008814P-98US-008814P-98US-008814P-98US-008814P-98US-008814P-98US-008814P-98US-008814P-98US-008814P-98US-008814P-98US-008814P-98US-008814P-98US-008814P-98US-008814P-98US-008814P-98US-008952P-98US-008952P-98US-008952P-98US-008952P-98US-008952P-98US-008952P-98US-008952P-98US-008952P-98US-0090444P-98US-0090444P-98US-0090444P-98US-0090444P-98US-0090444P-98US-0090444P-98US-0090444P-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0090444P-9-98US-0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98US-0090535P.
98US-0090540P.
98US-0090676P.
98US-0090678P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          98US-0090695P.
98US-0090696P.
98US-00105413.
98US-0090862P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     24 - JUN - 1998;
24 - JUN - 1998;
25 - JUN - 1998;
25 - JUN - 1998;
25 - JUN - 1998;
25 - JUN - 1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25-JUN-1998;
25-JUN-1998;
26-JUN-1998;
26-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                         22-MAY-1998,
28-MAY-1998,
28-MAY-1998,
28-MAY-1998,
02-JUN-1998,
03-JUN-1998,
04-JUN-1998,
04-JUN-1998,
04-JUN-1998,
05-JUN-1998,
05-JUN-1998,
05-JUN-1998,
05-JUN-1998,
10-JUN-1998,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10-JUN-1998;
10-JUN-1998;
10-JUN-1998;
10-JUN-1998;
10-JUN-1998;
11-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17-JUN-1998;
18-JUN-1998;
19-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22-JUN-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          22-JUN-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            24-JUN-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        12-JUN-15
16-JUN-15
16-JUN-19
16-JUN-17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11-JUN-1
11-JUN-1
```

Gaps 11;

DB 8; Length 997;

us-10-812-620-1.rng

```
98US-00105413.
98WO-US019330.
98WO-US021141.
98US-0018736.
98US-002054.
99US-00254311.
99WO-US02058.
99WS-00311832.
99WS-00311832.
99WS-00311832.
99WS-00311832.
99WS-0031137.
99WS-00380139.
99WS-00380139.
99WS-00380139.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2000MO-US006884.
2000MO-US008439.
2000MO-US013705.
2000MO-US014042.
2000MO-US014941.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2000WO-US020710
2000WG-US023128
2000WG-US023128
2000WS-00665350
2000WS-00709238
2000WG-US030952
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2000MO-US034956.
2001MO-US006520.
2001US-00816744.
2001US-00854208.
2001US-00866028.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2001WS-00908827.
2001US-00918585.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2001WO-US017800.
2001US-00874503.
2001WO-US019692.
2001WO-US021066.
                                                                                                                                                                                                                                                                                                                                                                                                                                                       2000WO-US004414.
2000WO-US005004.
2000WO-US005601.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2001US-00924419
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2001US-00946374
2002US-00052586
                                                                                                                                                                                                                                                                                                                                                                                                                2000WO-US000219
                                                                                                                                                                                                                                                                                                                                                                                                                           2000WO-US004341
                                                                                                                                                                                                                                                                                                                                                                                                                                          2000WO-US004342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2000WO-US005841
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2000US-00747259
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2001US-00929404
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .00931836
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2001WO-US027099
                                             2002US-00187603
                                                                                                                                                                                                                                                                                                                                                                                               99WO-US031274
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (GETH ) GENENTECH INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          08-NOV-2000)
08-NOV-2000)
01-DEC-2000)
20-DEC-2000)
20-DEC-2000)
28-FEB-2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10-MAY-2001; 2
25-MAY-2001; 2
01-UIN-2001; 2
05-UIN-2001; 2
20-UIN-2001; 2
29-UIN-2001; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                18-JUL-2001; 2
30-JUL-2001; 2
06-AUG-2001; 2
                                                                                                                                                                                                                                                                                                                                                                                                             05-JAN-2000;
18-FEB-2000;
22-FEB-2000;
24-FEB-2000;
01-MAR-2000;
01-MAR-2000;
30-MAR-2000;
30-MAR-2000;
32-MAY-2000;
30-MAY-2000;
30-MAY-2000;
30-MAY-2000;
30-MAY-2000;
30-MAY-2000;
30-MAY-2000;
30-MAY-2000;
                                             02-JUL-2002;
                                                                                     16-SEP-1998
07-OCT-1998
06-NOV-1998
01-DEC-1998
01-DEC-1998
01-DEC-1998
01-DEC-1999
14-MAY-1999
14-MAY-1999
02-JUN-1999
25-AUG-1999
01-SEP-1999
115-SEP-1999
115-SEP-1999
115-SEP-1999
115-SEP-1999
115-SEP-1999
116-SEP-1999
116-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          13-AUG-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28-AUG-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    15-JAN-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      04-SEP-2001
   545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         845
                                                                                                                                                                                                                                   CIGCTACAATTATGGATCAGGTTCAGTCAAGAATTGTTGTCCATTGAACTGGGAATATTT 365
                                                                                                                                                                                                                                                                             TCAATCTAGTTGTTATTTTTCTCTACGACCACCTTGACCTGGTCATCAAGTTTAAAGAA 443
                                                                                                                                                                                                                                                                                                                                                                    485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GCCAGAAATAAGTCCTCAGGACTAAGTGCAA----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAATCCAACATAAGAAATAT 858
323
                                                                                                                                                                                         CATCTTTCAAACCTGTGATGAAAAAGTTTCAGCTACCTGAGAATTTCACAGAGCTCTC 305
                                                                                                                                                                                                                       383
                                                                                                                                                                                                                                                                                                                                        503
                                                                                                                                                                                                                                                                                                                                                                                               563
                                                                                                                                                                                                                                                                                                                                                                                                                                                          GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC 623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAGA 915
TGCGCTGAACTTCAAAGGACTTCATAAGTATTTGTTACTCTGATACAAATAAAAATA 902
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           tumour;
                                                                                                   ATGTGTAAAAGAAGAAGAAGAACAAGCAACACCCCACCGCCCCACACAAAATTG
                                           ATCCCACCACACAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC
                                                                CAGCTCTCAAA---TITCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC
                                                                                                                                                                                                                                                                                                                                                        CTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAACTCACAGGAGGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                TTCCTACAAGAAACCTAAAAATGAGAGTTTTTTTATTGGACTGTCAGACCAGGTTGTCGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA
                                                                                                                                                                                                                                                                                                                                        TTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTGGACTGACAGACCAGGTGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; 88; gene; secreted protein; transmembrane protein; PRO; proliferation; differentiation; chondrocyte cells; tumour necrosis factor-alpha; TNF-alpha; blood; gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human secreted/transmembrane protein (PRO) cDNA #12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACA73396 standard; cDNA; 997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-JUL-2003 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US2003036146-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens.
                                                                                                                                                                                                                                                  306
                                                                                                                                                                                                                                                                                                           366
                  69
                                             147
                                                                         129
                                                                                                                                                                                          246
                                                                                                                                                                                                                                                                                                                                         444
                                                                                                                                                                                                                                                                                                                                                                    426
                                                                                                                                                                                                                                                                                                                                                                                               504
                                                                                                                                                                                                                                                                                                                                                                                                                            486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  624
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     859
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACA73396;
                                                                                                                                                              267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               726
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  846
                                                                                                                                                                                                                       324
                                                                                                                                                                                                                                                                                384
                                                                                                                                                                                                                                                                                                                                                                                                                                                          564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            RESULT 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                  d
                                                                                             ò
                                                                                                                            셤
                                                                                                                                                            ઠે
                                                                                                                                                                                   셤
                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                   a
                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                      a
                                                                                                                                                                                                                                                                                                                                                                                                                                                          δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
```

```
RESULT 14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ACA0571
                                                                                    ò
                                                                                                                                      g
                                                                                                                                                                                              ò
                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                        à
                                                                                                                                                                                                                                                                                                                                                        임
                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ç
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to three hundred and five nucleic acids encoding PRO polypeptides (secreted and transmembrane), sequences 80% identical to them, or encoding a PRO polypeptide lacking its associated signal peptide or an extracellular domain of the PRO polypeptide, with or lacking its associated signal peptide. Also included are the encoded PRO proteins, PRO expression vectors, host cells transformed with the vector (used to produce PRO proteins), a chimaeric molecule comprising the PRO produce PRO protecting, a chimaeric molecule comprising the PRO polypeptide fused to a heterologous amino acid sequence, an anti-PRO antibody, a method for stimulating the release of tumor necrosis factor (PROS17, PRO714, PRO1131, PRO1136, PRO1165, PRO11657) or CRO917, PRO11131, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO1116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, PRO 116, P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3,
                                                                                                                                                       Three hundred and five nucleic acids encoding PRO polypeptides, useful in gene thexapy, chromosome identification, tissue typing, and for detecting the presence of tumor in a mammal.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      323
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       207 CGGGGCCTCCATCCTGTTTCTCAGTGGTGTTTCATCACCAGAIGTGTCGTAACATATCG 266
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              culture or natural sources. The present sequence is a cDNA encoding a PRO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGAGAGAGAGAAACAAAACCAAAGAGAGAGAAAAAATGAATTCATCTAAATCATCTGA 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 147 ATCCCACCACACAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC 206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   246 carcinicaaaccngigangaaaaagrincagcnaccigagaahnicacagagcichc 305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Crécracaarrargearcaggircagreagaarrerrercearreaacregeaararrr 365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   384 TCAATCTAGTTGTTATTTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAA 443
        Gurney AL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              129 AACACAATGCACAGAGGAGGATGCTTC---TCTTCCCAAATGTTCTTATGGACTGTTGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CAGCTCTCAAA---TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGCTCTTTGAACTGGAAACATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              186 researcecearceratricicas de construciones de researciones de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción de construcción 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 997;
Goddard A, Godowski PJ,
ood WI, Zhang Z;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 997 BP; 376 A; 189 C; 200 G; 232 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          / Match 17.5%; Score 439.4; DB 8; Local Similarity 72.9%; Pred. No. 4.3e-94; nes 610; Conservative 0; Mismatches 216;
J., Godwi,
                                                                                                                                                                                                                                                                          2; Fig 23; 707pp; English
                              Watanabe CK,
  Desnoyers
                                                                                 2003-332034/31
  Chen J,
                         Smith V,
                                                                                                             P-PSDB; ABU86204
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          protein
                              Pan J,
     Baker
                                                                                                                                                                                                                                                                          Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Loca
Matches
  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
```

```
485
                                                                                                                                           563
                                                                                                                                                                                545
                                                                                                                                                                                                                       623
                                                                                                                                                                                                                                                              605
                                                                                                                                                                                                                                                                                                     683
                                                                                                                                                                                                                                                                                                                                        606 AGGGGAGCCCAACAACATAGCTACCCTGGAGGACTGTGCCACCATGAGAGACTCTTCAAA 665
                                                                                                                                                                                                                                                                                                                                                                                 743
                                                                                                                                                                                                                                                                                                                                                                                                                     ĊCCAAĞGCAAAATTGGAATGATGTAACCTGTTTCCTCAATTATTTTCGGATTTĞTGAAAT 725
                                                                                                                                                                                                                                                                                                                                                                                                                                                            GCCAGAAATAAGTCCTCAGGACTAAGTGCAA----GGAAATACAAGGGACATGGCTTAC 798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACAACTCAA 785
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATGCAȚGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAATCCAACATAAGAAATAT 858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAGA 915
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGCGCTGAACTTCAAAGGACTTCATAAGTATTTGTTACTCTGATACAATAAAATA 902
                                                                                                                                                                                                                                           GGGTCAGTCGCAATGGGTGGACGCCACACCTTTGACAAAGTCTCTGAGCTTCTGGGATGT
                                                             TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT
                                                                                                  TTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTTGGACTGACAGACCAGGTGGTGGA
                                                                                                                                                                                rrccracaagaagccraaargagagrrrrrrrrrrggacrgrcagaccaggrrgrcga
                                                                                                                                                                                                                                                                                                                                                                                 CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTTGTGAGAT
                                                                                                                                                                                                                       GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                                                                                                                                                                                                                                                     TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human, gene, 88, secreted and transmembrane protein; PRO; TNF-alpha;
tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human secreted/transmembrane protein (PRO) cDNA #12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         98WS-00105413.
98WO-US019330.
98US-00168978.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   99WO-US005028.
99US-00311832.
99WO-US010733.
99WO-US012252.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              99US-00380137.
99US-00380138.
99US-00380139.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              98US-00202054.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACA05711 standard; cDNA; 997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98US-00187368
98WO-US025108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2002US-00194423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    98WO-US021141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US2003036162-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29-MAY-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12-JUL-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-DEC-1998;
07-DEC-1998;
03-MAR-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                25-AUG-1999;
25-AUG-1999;
25-AUG-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20-FEB-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             26-JUN-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    07-OCT-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    07-0CT-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         06-NOV-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     08-MAR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           14-MAY-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16-SEP-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                02-JUN-1999
                                                             444
                                                                                                    426
                                                                                                                                           504
                                                                                                                                                                              486
                                                                                                                                                                                                                       564
                                                                                                                                                                                                                                                              546
                                                                                                                                                                                                                                                                                                                                                                                                                       999
                                                                                                                                                                                                                                                                                                                                                                                                                                                            744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   726
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          799
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      859
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             846
                      366
                                                                                                                                                                                                                                                                                                     624
                                                                                                                                                                                                                                                                                                                                                                                 684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            tissue
```

```
in chromosome and gene mapping, in generating antisense RNA and DNA, in preparing PRO polypeptides by recombinant techniques and in gene therapy (e.g. for replacement of defective gene). The PRO polypeptides are useful as molecular weight markers for protein electrophoresis purposes, for chromosome identification, as chromosome markers, as therapeutic agents, for stimulating the prelatese of TNF-alpha from human blood, for stimulating the presence of a tumour. The PRO polypeptides and nucleic acids may also be used diagnostically for tissue typing. The sequences presented in ACANG5700-ACAOGO04 are the cDNAs encoding the PRO polypeptides of the invention
   nucleotide sequences. The nucleotide sequences are useful as probes,
                                                                                                                           Sequence 997 BP; 376 A; 189 C; 200 G; 232 T; 0 U; 0 Other;
                                                                                                                                             Query Match
  888888888888888888888
                                                                                                                                                                                             ୍ମ
                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                   요
                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                   ò
                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                 ծ
                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Desnoyers L, Goddard A, Godowski PJ, Gurney AL; stanabe CK, Wood WI, Zhang Z;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Watanabe CK,
                                                                                                                                                                                         2000WO-US015264.
2000WO-US020710.
2000US-00644848.
2000WO-US023328.
                                                                                                                                                                                                                                      200005-0065350
200000-US030952
200000-US030552
200000-US032678
200000-US032678
200100-US034956
200100-US06520
200100-00816744
2001US-00854208
                                                                                                                                                                                                                                                                                                                                     2001US-00866028.
2001WO-US017800.
2001US-00874503.
2001WO-US019692.
99US-00380142.
99WO-USO20111.
99WS-00403297.
99WS-0043844.
99WO-USO28301.
                                                                                                                                                                                                                                2000US-00664610.
                                                                                                                          2000WO-US005601
                                                                                                                                                                                                                                                                                                                                                                                   2001WO-US021735.
2001US-00908827.
                                                                                                                                                                                                                                                                                                                                                                                                                                   2001US-00931836
                                                                                                                                                                                                                                                                                                                                                                                                       2001US-00918585
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       15-JAN-2002; 2002US-00052586
                                                                           2000WO-US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (GETH ) GENENTECH INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Chen J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Smith V,
                                                                                                                                                                                        02-JUN-2000;
28-JUL-2000;
22-AUG-2000;
24-AUG-2000;
18-SEP-2000;
18-SEP-2000;
08-NOV-2000;
                 15-SEP-1999;
18-OCT-1999;
01-DEC-1999;
02-DEC-1999;
06-DEC-1999;
06-JAN-2000;
18-FEB-2000;
18-FEB-2000;
24-FEB-2000;
                                                                                                                                                    30-MAR-2000;
17-MAY-2000;
22-MAY-2000;
30-MAY-2000;
                                                                                                                                                                                                                                                                                               28-FEB-2001;
22-MAR-2001;
10-MAY-2001;
10-MAY-2001;
                                                                                                                                                                                                                                                                                                                                     25-MAY-2001;
01-JUN-2001;
05-JUN-2001;
20-JUN-2001;
                                                                                                                                                                                                                                                                                                                                                                          29-JUN-2001;
09-JUL-2001;
18-JUL-2001;
                                                                                                                        01-MAR-2000;
02-MAR-2000;
15-MAR-2000;
                                                                                                                                                                                                                                                          -NOV-2000;
-DEC-2000;
-DEC-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                        13-AUG-2001;
16-AUG-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ΚP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pan J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Baker
```

```
146
                                                                                                                                                                                                                                                                                                                                        245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    383
                                                                                                                                               AACACAATGCACAGAGAGGATGCTTC---TCTTCCCAAATGTTCTTATGGACTGTTGC 185
                                                                                                                                                                                                                                                                                           266
                                                                                                                                                                                                                                                                                                                                                                                      323
                                                                                                                                                                                                                                                                                                                                                                                                                                     305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    623
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              665
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        798
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAAATCCAACATAAGAAAATAT 858
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAGA 915
                                                                                                  186 TGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATCACCAGATGTGTTGTGACATTTCG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATCCCACACACACAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCCTGGACGATAGC
                                                                                                                                                                                                                                                                                           CGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACCAGATGTGTCGTAACATATCG
                                                                                                                                                                                                                                                                                                                                                                                      CAGCTCTCAAA - - - TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                     CATCITICAAACCIGIGAIGAAAAAGTITCAGCIACCIGAGAAITICACAGAGCICIC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 crecracaarraregarcaegraagaarraregreatrereregaacreegaararrr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TCAATCTAGTTGTTATTTTTCTCTACGACCACCTTGACCTGGTCATCAAGTTTAAAGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           444 TTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTGCTCAGCCATGGGGGGCTCACCTGGTGGTTATCAACTCACCAGGAGGAGGAATTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATATTGGACTGACAGACCAGGTGGTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     trectacaagaaceraaargagagagriritriarrggaergreagaceaggrigiega
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTCTGGGATGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   546 GGGTCAGTGGCAATGGGTGGACGGCACACCTTTGACAAAGTCTCTGAGGTTTCTGGGATGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    624 TGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AGGGGAGCCCAACAACATAGCTACCCTGGAGGACTGTGCCACCATGAGAGACTCTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CCCAAGGCAAAATTGGAATGATGTAACCTGTTTCCTCAATTATTTTCGGATTTGTGAAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GCCAGAAATAAGTCCTCAGGACTAAGTGCAA-----GGAAATACAAGGGACATGGCTTAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGTAGGAATAAATCCTTTGAACAAAGGAAAATCTCTTTAAGAACAGAAGGCACAACTCAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATTTGTGAGAT
                                                      Gape
                                                   11;
    8; Length 997;
Score 439.4; DB 8; Length
Pred. No. 4.3e-94;
0; Mismatches 216; Indels
  17.5%;
72.9%;
                           Best Local Similarity 72.9
Matches 610; Conservative
                                                                                                                                                                                             147
                                                                                                                                                                                                                                            129
                                                                                                                                                                                                                                                                                         207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  384
                                                                                                                                                                                                                                                                                                                                                                                      267
                                                                                                                                                                                                                                                                                                                                                                                                                                     246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        504
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                909
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             744
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       726
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       786
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      859
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g . &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               useful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention discloses human nucleic acids encoding secreted and transmembrane (PRO) polypeptides. Also disclosed is an antibody that specifically binds to the PRO polypeptide, a method for stimulating the release of tumour necrosis factor alpha (TNF-alpha) from human blood by contacting the blood a PRO polypeptide, a method for stimulating the proliferation or differentiation of chondrocyce calls by contacting the cells with a PRO polypeptide, a method for detecting the presence of a tumour in a mammal and an oligonucleotide probe derived from any of the

    secreted and transmembrane PRO polypeptides and nucleic acids, usef
gene therapy, in chromosome and gene mapping, as chromosome markers,
tissue typing, and in chromosome identification.
```

Claim 2; Fig 23; 706pp; English

WPI; 2003-332039/31. P-PSDB; ABU67417.

New

셤

```
AGAGAGAGAGAACAAAAACCAAAGAGAGAGAAAAAATGAATTCATCTAAATCATCTGA 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AACACAATGCACAGAGGAGGATGCTTC---TCTTCCCAAATGTTCTTATGGACTGTTGC 185
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CATCITICAAACCIGIGAIGAAAAAGIITICAGCIACCIGAGAAITICACAGAGCICIC 305
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CIGCIACAGIGAGGCAICAGGIICAGICAAGAAIIGCIGICCIIIIGAACIGGAAACAIIA 383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TCAATCTAGTTGTTATTTTTTTTCTTACGACAACCTTGACCTGGTCAACTTTAAAGAA 443
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TCAATCCAGCTGCTACTTCTTTTCTACTGACACCATTTCCTGGGCGTTAAGTTTAAAGAA 425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to three hundred and five nucleic acids encoding PRO polypeptides (secreted and transmembrane). Methods and compositions of the present invention are useful for the diagnosis, prevention and/or treatment of tumours, such as adrenal, lung, colon, breast, prostate, rectal, cervical or liver tumours. The PRO polypeptides are also useful as molecular weight markers, or for chromosome identification. The PRO genes are useful as hybridisation probes, or for screening libraries of human CDNA, genomic DNA or mRNA. The PRO genes may also be used in gene therapy, particularly for replacing a defective gene. The present sequence represents a CDNA encoding a human PRO polypeptide of the
                                                                                                                                                                                                                                                                                                                                                                             Three hundred and five nucleic acids encoding secreted and transmembrane PRO polypeptides, useful for the diagnosis, prevention and/or treatment of tumors, such as adrenal, lung, colon, breast, prostate, rectal,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gurney AL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAGCTCTCAAA----TTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATCCCACCACACAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCCTGGACGATAGC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17.5%; Score 439.4; DB 8; Length 997; 72.9%; Pred. No. 4.3e-94; tive 0; Mismatches 216; Indels 11.
                                                                                                                                                                                                                                                                                       Godowski PJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 997 BP; 376 A; 189 C; 200 G; 232 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                      , Goddard A, Go
Wood WI, Zhang
                                                                                                                                                                                                                                                                                         'n
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 2; Fig 23; 708pp; English
                                                      20-UW-2001; 201MO-US019692.
29-UW-2001; 2001WO-US019692.
09-UUL-2001; 2001WO-US021066.
09-UUL-2001; 2001WS-0090827.
30-UUL-2001; 2001US-00918585.
06-AUG-2001; 2001US-00924419.
11-AUG-2001; 2001US-0092419.
11-AUG-2001; 2001US-00931836.
28-AUG-2001; 2001US-00931836.
            2001US-00866028
2001WS-00874503
2001WS-00874503
2001WS-US019682
2001WS-US021066
2001WS-US021066
2001US-00908827
2001US-00918865
2001US-00924419
                                                                                                                                                                                                                                                                                       , Desnoyers
Watanabe CK,
                                                                                                                                                                                             29-AUG-2001; 2001WO-US027099.
04-SEP-2001; 2001US-00946374.
15-JAN-2002; 2002US-00052586.
                                                                                                                                                                                                                                                                                                                                                                                                                            cervical or liver tumors.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                          (GETH ) GENENTECH INC
                                                                                                                                                                                                                                                                                                                                 WPI; 2003-342038/32.
P-PSDB; ABU80445.
                                                                                                                                                                                                                                                                                       Chen J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local Similarity
ses 610; Conserv
                                                                                                                                                                                                                                                                                                     Smith V,
                                                                                                                                                                                              29-AUG-2001;
04-SEP-2001;
                 25-MAY-2001;
01-JUN-2001;
                                              05-JUN-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            186
                                                                                                                                                                                                                                                                                       Ж,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               384
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    324
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                     Pan J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Loca
Matches
                                                                                                                                                                                                                                                                                       Baker
 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                              tumour; adrenal; lung; colon; breast; prostate; rectal; cervical;
846 TGCGCTGAACTTCAAAGGACTTCATAAGTATTTGTTACTCTGATACAAATAAAATA 902
                                                                                                                                                                encoding human PRO protein #12.
                                                                                                                                                                                                               PRO; gene therapy; gene; ss.
                                                                           BP
                                                                                                                                                                                                                                                                                                                                                                             98WO-US019330.
98US-00168978.
98WO-US021141.
98US-00187368.
98WS-00205108.
99WS-0020541.
99WO-US005028.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              99WO-US012252.
99US-00380137.
99US-00380138.
99US-00380142.
99WO-US020111.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   99WO-US021090
99US-00403297.
99US-00423844.
99WO-US028301.
99WO-US031274.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2000WO-US020710.
2000US-00644848.
2000WO-US023328.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2000WO-US004414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2001WO-US006520.
2001US-00816744.
2001US-00854208.
                                                                           ACA66545 standard; cDNA; 997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       000WO-US005601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2000WO-US006884
2000WO-US008439
                                                                                                                                                                                                                                                                                                                                   2002US-00184640
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                99WO-US010733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2000WO-US004341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2000WO-US004342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  000WO-US013705
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                000WO-US014042
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2000WO-US014941
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2000WO-US015264
                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2000WO-US
                                                                                                                                                                                                                                                                        US2003036137-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            05-JAN-2000;
18-FEB-2000;
18-FEB-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 30-MAR-2000;
17-MAY-2000;
22-MAY-2000;
30-MAY-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            22-MAR-2001;
10-MAY-2001;
                                                                                                                                                                                                                                                                                                                                   27-JUN-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   15-SEP-1999;
18-OCT-1999;
12-NOV-1999;
01-DEC-1999;
30-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          22-AUG-2000;
24-AUG-2000;
                                                                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                         06-NOV-1998;
01-DEC-1998;
07-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         22-FEB-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            02-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       08-NOV-2000;
                                                                                                                                    23-JUN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14-MAY-1999
02-JUN-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              25-AUG-1999
25-AUG-1999
                                                                                                                                                                                                                                                                                                     20-FEB-2003
                                                                                                        ACA66545;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25-AUG-19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-SEP-1
                                                                                                                                                                                              Human;
                                                                                                                                                                                                               liver,
                                                                                                                                                                  CDNA
                                                           ACA66545
```

146

206

Search completed: June 9, 2005, 04:23:54 Job time: 1337 secs THIS PAGE BLANK USPOON

19.2 493 6 BYS52058 18.3 473 2 BB860060 18.1 489 6 BYS29779 17.5 473 6 BYS5970 17.4 496 6 C86253	17.3 453 2 BB785184 17.2 442 6 BY542553 17.2 452 6 BY552321 17.1 436 6 BY544721	429.8 17.1 441 6 BY56351B BY56351B BY56351B 424.6 16.9 454 6 BY535249 BY56351B BY55351B BY56351B BY56351B BY56351B BY56351B BY56351B BY56351B BY56351B BY56351B BY56351B BY56351B BY56351B BY56351B BY56351B BY56351B BY56351B BY56351B BY56351B BY56351B BY5631B BY5630505 BY5630505 BY5630505	6.5 438 6 BY237115 6.3 414 5 BY207927 6.3 428 6 BY5494585 6.2 429 6 BY539169	ALIGNMENTS		AKO89286 2233 E Mus musculus B6-derived CD11, full-length enriched library, (calcium dependent, carbohydra superfamily member 9, full ins AKO89286. I G126105181 HTC; CAP trapper. Mus musculus (house mouse) Mus musculus (house mouse)	Dukaryota; metazoa; Lhordata; Lranlata; Vertebrata; butterebucumi; Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 15 1 15 Carninci, P. and Hayashizaki, Y. High-efficiancy full-length cDNA cloning		Iton,M., Konno,H., OKazaki,Y., Muramatsu,M. and Hayaanizaki,Y. Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes AE Cenome Res. 10 (10), 1617-1630 (2000) AE 20499374 AE 20499374 AE 20499374		
0 3 2 2 2 2 5 3 3 3 3 9 8 4 4 6 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	3 3 3 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3 4 3	и w w w w ж д д	4 4 4 4 7 6 4 6		RESULT 1 AK089286	LOCUS DEFINITION VERSION KEYWORDS SOURCE ORGANISM	REFERENCE AUTHORS TITLE	ACOURNAL MEDLINE PUBMED REFERENCE AUTHORS	TITLE JOURNAL MEDLINE PUBMED	AUTHORS	JOURNAL MEDLINE PUBMED REFERENCE AUTHORS TITLE JOURNAL
GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.	Run on: June 9, 2005, 03:48:21; Search time 8065 Seconds (without alignments) 11879.450 Million cell updates/sec	Title: Perfect score: 2517 Sequence: 1 cggtctgttactcttgaactaaataaagtaataaactatt 2517 Scoring table: IDENTITY NUC Gapop 10.0 , Gapext 1.0	Searched: 34239544 segs, 19032134700 residues Total number of hits satisfying chosen parameters: 68479088	Minimum DB seq length: 0 Maximum DB seq length: 2000000000	Post-processing: Minimum Match 0% Maximum Match 100% Listing First 45 summaries	Database : EST:* 1: gb_est1:* 2: gb_est2:* 3: gb_htc:* 4: gb_est3:* 5: gb_est4:* 6: gb_est4:* 7: gb_est6:* 8: gb_gst8:*	era	* Result Query No. Score Match Length DB ID Description	1991 79.1 2233 3 AK089286 AK089286 1338 53.2 4017 3 AK036493 AK036493 818.6 32.5 865 9 BX963867 BX963867 706.2 28.1 731 4 BG067349 BG067349 696.6 27.7 756 6 BY761232 BY761232 665.6 27.7 705 6 BY761232	655.2 26.0 70.0 BY763B13 BY763B13 650.8 25.9 717 6 BY763B13 BY743963 9 650.4 25.8 674 6 BY744630 BY744630 1 637.8 25.6 674 6 BY744630 BY747621 2 635.6 25.3 655 6 BY749084 BY749084 3 625.2 25.0 644 4 BG080418 BG080418 625.4 24.8 644 6 BY74467	2.2 2.2 2.3 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4 2.4

242 TCACCAGATGTGTCGTAACATATCGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCAC 301 242 TCACCAGATGTGTGTAACATATCGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCAC 301 302 ATAGAAATATTAAGGAGCTTTCCTGCTGCTGCTGCAATTTTCCGGGCAGAACTTACAGCCAC 301 302 ATAGAAATATTAAGGAGCTTTCCTGCTACAGTGGATCACAGGATAACACATTAAGGAGCATTCTCGCACACAGTTACAGGAACACATTAAGGAGCATTCTGGCACATTAAGGAGCATTCTTGCAGAATTTTTTTT		CCTGTTTCTACAGTATGCCTTGGATTTGTGAGATGCCGGAAATAGTCCTCAGGGCTAAG [990 GTATTACTGGGACATAAGTAAAAAGCTTGTTCCCATTGCTAAAAGTCCACAGCATTGTC 949 961 GTATTACTGGGACATAAGTAAAAATGACTTGTTCCCATTGCTAAAAGTCCACAGCATTGTC 1020 950 TGATGGTCTTGCCATAACCTGAAAGATCTTTTTAGACTGTACAGATCCTCTAAC 1009 1021 TGATGGTCTTGCCATAACCTGAAAGACCTTTTTTAGACTGTACAGATCCATTCTCTAAC 1069 1010 AAATGCAACAAGAAGAAGACGTTTTTAGACTGTACAGATCTCTTAAC 1069 1010 AAATGCAATAAGAAAAGAGATTCTCTTTTTAGACTGTACTAGATTCTCTTACT 1140 1001 AAATGCAATAAGAAAAGAGATTCTCTTTTTAGACTGTCTTGCATTTTTAGT 1120 1010 CATGAGATTGATATGAAGGAATCTCCTTTTTAGACTGTCTTTGCATTTTAGT 1120 1141 CATGAGAATTGATATGAAGGAACGGTAGAAAGCAGATGTCTGTATAAAGAAGACTTTAAT 1120 1130 GGTCACTATGATCTTTCTACATCCTTTGGCATTTAATTAT 1120 1131 GGTCACTATGATCTTTCTACATCCTTTGGCATTTAAATTATTAT 1120 1120 GGTCACTATGTCATCTTTCTACATCCTTTGGCTTTAAACTT 1120 1120 GGTCACTATGTCTTTCTACATCCTTGGGAAGATCTTTAAACTT 1249 1121 CATGAGATCACTTCTGTTTTCTACATCCTTGGGAAGTCTTTTAAACTT 1249 1121 CATGAGATCACTTCTGTTTTCTACATCCTTGGGAAGTCTTTTAAACTT 1249 1121 CATGAGATCACTTCTGTGTTCTACAACTTTGGAAGTCTTTTAAACTT 1120 1121 CATAGATCACTTCTGTGTTCTCCAACAGTGGGAAGATGCATTTTAAACTT 1120 1121 CATAGATCACTTCTGTGTTCTCCAACAGTGAGAAGATGCATCTTTTAAACTT 1120 1121 CATAGATCACTTCTGTGTTCTCCAACAGTGAGAAGATGCATCTTTTAAACTT 1120 1121 CATAGATCACTTCTGTGTTCTCCAACAGTGAGAAGATGCATCTTTTAAACTT 1120
666666666666666666666666666666666666666	6 6 6 6 6 6	8 6 8 6 8 6 8	8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 8 8 8 8 8
The FANTOM Consortium and the RIKEN Genome Exploration Research Group Phase I & II Team. Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs Nature 420, 563-573 (2002) E (bases I to 2233) E (bases I to 2233) E (Adachi, J., Aizawa, K., Akimura, T., Hara, A., Hashizume, W., Haramo, M., Hanagaki, T., Hara, A., Hashizume, W., Hayashida, K., Hayatsu, N., Hiramoto, K., Hiraoka, T., Kasukawa, T., Katoh, H., Kawai, J., Kojima, Y., Kondo, S., Konno, H., Kouda, M., Katoh, H., Kawai, J., Kojima, Y., Kondo, S., Konno, H., Kasukawa, T., Katoh, H., Sakai, K., Sakai	URL:http://genome.gsc.riken.jp/, Tel:81-45-503-9222, Fax:81-45-503-9216, CDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. Tissues were provided by Dr. John Todd (Dept. of Medical Genetics Wellcome Trust Centre for Molecular Mechanisms in Disease Wellcome Trust/MRC building Addenbrookes Hospital Cambridge) whose	i Ce	1.
AUTHORS TITLE JOURNAL REFERENCE AUTHORS TITLE JOURNAL	COMMENT	FEATURES	ORIGIN Query Me Best Log Qy Db Qy Db Qy Oy Db

AKO: HTC Mus	Ε			DRS Carninci, P., Shib Itoh, M., Konno, H.		NED 11042159 NCE 3 NRS Shibata, K., Itoh, Konno, H., Akiyama	Sumi, N., Ishii, Y. Yamamoto, R., Mats Fujiwake, S., Inou Yoneda, Y., Ishika						Hayashida,K., Hay Hori,F., Imotani, Katoh,H., Kawai,J Koya,S., Kurihara	Nakamura,M., Nish Okazaki,Y., Saito Sano,H., Sasaki,D Sogabe,Y., Tagami	AL.	Physical and Chem Exploration Resea RIKEN Yokohama In Kanaqawa 230-0045	URL:http://genome Fax:81-45-503-921 CDNA library was Encyclopedia Proj Genomic Sciences Division of Exper
N KE	9 8 8 8		RE	S9 AUTHORS		POEMED REFERENCE AUTHORS 79	88 68		MEDLINE 88 PUBMED REFERENCE 59 AUTHORS	TITLE JOURNAL 19 REFERENCE		JOURNAL SB REFERENCE AUTHORS 19	83	59	17 TITLE 19 JOURNAL	,	COMMENT.
1250 ACCTGCCGCTTGGGAGAATGGCATGGCCTTCAGCAAGGACATCTCCATATGGAAAGGCCG 130:	1310 GTCAAACTICAGITCCTAACAGAITGTGATCTAGTCCACTCTTCCTGGAGCCCCATTITC 136	TCTGTCTTCTTCTATAAACTGGATTTCACCTGTACTTGTATCTACTGCGCAAGTAGAA	1440 ICTGIGITCTCTTCTAIAAACTGGAITTCACCTGIACTTGTACTGCGCAGGGAGTAGAA 1499 1430 CCTGCTCAGTAGGTTCAAAGTGAAATTATTAAAAATTCATGTTCACATTTTTCTGTCTC 1489		1490 AGGACTGCATTATTGCATGATATTCTGTCAATATAGACCATGTTTCTTCCAGACAAAGC 1549	1550 CCATTAGGAA-CTTCAGCAGCAGTCACACATTGTAATAAACATGTATCCTTGAGTAGGAA 1608 	1609 AATTAAACTAAATAAATTAATTTGCATATTAGCACTCATTACGAGCACTTCTATTAGAC 1668 	1669 TTTCTCACAATCTGATTTTGAAATTGATAACCTTATTTTAAATACAAATATATCTACAA 172 	1729 CCACACATTIGACTICTITITAAAATTATTITIGAAAATTITGGGCATTIATAT 1788 	1789 AATTGACTTTTAATGAACCCATCCTTAGTCTCCTCACTAGAACCTGCTCTATCCACCTC 1848	1849 ACTGATTTTCCCTCCCAATTTCATGTGCTCCTCTTTGTTTTAAACCCACTCTATCTGCTC 1908	1909 AGTGCTTCCTGAATGCACTTGAGTATAAGGCTTTCTACTGGACCATAGCCTCTCGGCAAC 1968	1969 CACATCCCATACTCCACCTGCTCCAGCAACAATAGCCAATTGACCATCTTCAGCTG 2028	2029 AGGATGG-ATTTCATGAGCTCCATGCCATTCATGCTGGAATTTGGGTTGTTTTATGTAAC 2087	2088 CTTTATTATATIGIGCTATCTCTTCTGTATCCCTAGAAICTCTAGGAGCTTCATATTAAA 2147 [2148 AGATTCTGAATTCC 2161 2220 AGATTCTGAATTCC 2233	2 93 AK036493 4017 bp mRNA linear HTC 03-APR-2004 TION Mus musculus adult male bone cDNA, RIKEN full-length enriched
که م	රු සි	ठे त	g &	đ	6 G	\$ g	ζο q ₀	کو م م	& g	ර සි	\chi_{\text{d}}	ç G	ç G	\$ q	<u>ئ</u> و	දු දු	RESULT 2 AK036493 LOCUS DEFINITION

AK036493 4017 bp mRNA linear HTC 03-APR-2004 Mus musculus adult male bone cDNA, RIKEN full-length enriched library, clone:9830118H07 product:0-type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 9, full almsert sequence.

ACCESSION

```
1214
                                                                                                                                                                                                                                                                                                                                              3711
                                                                                                                                                                                                                                                                        3651
                                                                                                                                                                                                                                                                                                          1334
                                                                                                                                                                                                                                                                                                                                                                                 1394
                                                                                                                                                                                                                                                                                                                                                                                                                 3771
                                                                                                                                                                                                                                                                                                                                                                                                                                                       1454
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3831
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3891
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Reverse strand read from insert in 5'HPRT insertion targeting and chromosome engineering clone MHPN49e21, genomic survey sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 865)
Adams, D.J., Biggs, P.J., Cox, A.V., Davies, R.M., van der Weyden, L., Jonkers, J.J., Smith, J., Plumb, R.W., Taylor, R.G., Nishijima, I., Yu, Y., Rogers, J. and Bradley, A. Davies, M. Mishijima, I., Yu, Y., Submitted (20-FEB-2004) Sanger Centre, Hinxton, Cambridgeshire, CB10 1SA, UK. http://www.sanger.ac.uk/MICER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3412 CCCTTTTCACATCTGTCTTGCACATCTGTCTTGCTCATGAGAATTGATATGAAGGAACAG
                                                                                                            GTAGAAAGCAGATGTCTGTATAAAGAGACTTTAATGGTCACTATGTCCTGTTCTTTC
                                                                                                                                                                                    TACATCCTTGGGTCTAGCTTATCTATCTATCAGTACATAGATCACTTCTGTGTTCTCCAA
                                                                                                                                                                                                                                                         GCCTTCAGCAAGGACATCTCCCATATGGAAAGGCCGGTCAAACTTCAGTTCCTAACAGATT
                                                                                                                                                                                                                                                                                                                                                                                                    GIGATCTAGTCCACTCTTCCTGGAGCCCCATTTTCTCTGTGTTCTCTTCTATAAACTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TIATITIAAAAATICETGIICACATITITICIGICCAGGACIGCATITATIGCAIGATAIT
                  TACATCCTTGGCTCTAGCTTATCTATCAGTACATAGATCACTTCTGTGTTCTCCCAA
                                                                                                                                                                                                                                       CAGTGAGGAAGATGCATCTTTGAGTCTTTAAACTTACCTGCCGCTTGGGAGAATGGCATG
                                                                                                                                                                                                                                                                                                            GCCTTCAGCAAGGACATCTCCATATGGAAAGGCCGGTCAAACTTCAGTTCCTAACAGATT
                                                                                                                                                                                                                                                                                                                                                                                 GIGAICTAGICCACICTICCTGGAGCCCCATTITCTCTGTGTTCTTCTATAAACTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITCACCTGTACTTGTATCTACTGCGCAAGTAGAACCTGCTCAGTAGGTTCAAAGTGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TTTCACCTGTACTTGTATCTACTGCGCAAGTAGAACCTGCTCAGTAGGTTCAAAGTGAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TTATTTAAAAATTCATGTTCACATTTTTCTGTCTCAGGACTGCATTATTGCATGATATT
                                                                                          GTAGAAAGCAGATGTCTGTATAAAGAGACTTTAATGGTCACTATGTCATCCTGTTCTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTGTCAATATAGACCATGTTTCTTCCAGACAAAGCCCATTAGGAA-CTTCAGCAGCAGTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GSS; genome survey sequence; MICER.
Mus musculus (house mouse)
Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1. .865
/organism="Mus musculus"
/mol type="genomic DNA"
/db_xref="taxon:10090"
/clone="MHPN49e21"
/clone_lib="MHPN"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BX963867.1 GI:49695290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4017
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CATATT 1639
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CATATT
                                                                                                                             3472
                                                                                                                                                                                                   3532
                                                                                                                                                                                                                                                                                                          1275
                                                                                                                                                                                                                                                                                                                                              3652
                                                                                                                                                                                                                                                                                                                                                                                                                     3712
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3832
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1574
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1634
                                                                                                                                                                 1155
                                                                                                                                                                                                                                       1215
                                                                                                                                                                                                                                                                          3592
                                                                                                                                                                                                                                                                                                                                                                                   1335
                                                                                                                                                                                                                                                                                                                                                                                                                                                         1395
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3772
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1455
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1515
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    4012
                                                                                          1095
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 3
BX963867
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORIGIN
                                           ద
                                                                                      ઠ
                                                                                                                      a
                                                                                                                                                        ð
                                                                                                                                                                                           요
                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                 중 음
                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                            a
                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                   /note="C-type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 9 (MGD|MGI:1861232, GB|NM_019948, evidence: BLASIN, 99%, match=1386)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2931
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3411
                                                                                                                                                             /tissue type="bone"
/clone lib="RIKEN full-length enriched mouse cDNA library"
/dev stage="adult"
                                                                                                                                                                                                                                                                                                                                                                                                                                      2691
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2811
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2871
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             976 TCTCTTTTTAGACTGTACAGATCAATTCTCTAACAAATGCAACAAGAAAAAAGGGATTCT 1035
                                                                                                                                                                                                                                                                                                                                                                  ,
,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TGGGATGCTGGGGGGCCCAACATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGAC 3051
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                3052 TCTTCAAACTCCAGGAAGAACTGGAATGATATACCCTGTTTCTACAGTATGCCTTGGATT 3111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         3171
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  3172 TACATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAATCCAACATAAGAAAA 3231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2692 GAGCTTTCCTGCTACAGTGAGGCATCAGTTCAGTCAAGAATTGCTGTCCTTTGAACTGG 2751
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          375
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        495
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 915
                                                                                                                                                                                                                                                                                                                                                                                                    315
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              555
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  615
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         675
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                735
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    795
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             855
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTTGTTCCCATTGCTAAAAGTCCACAGCATTGTCTGATGGTCTTGCCATAACCTGAAAGA 975
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3352 CCTCTTTTTAGACTGTACAGATCAATTCTCTAACAAATGCAACAAGAAGAAGAAGGGATTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                      2632 GTAACATATCGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2752 AAACATTATCAATCTAGTTGTTATTTTTCTCTACGACAACCTTGACCTCGTCATCAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GAATTCCTTTTTCGCACAAATCTAAAAGGAAAGAGTTTTATATTGGACTGACAGACCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GAATTCCTTTTTCGCACAAAACCTAAAAAGGAAAGGGTTTTATATTGGACTGACAGACCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GTGGTGGAGGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAGTCCCTGACCTTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GIGGIGGAGGGTCAGTGGCAATGGGTGGATGATACACCTTTCACAGAGTCCCTGAGCTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TGGGATGCTGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCCACCATAAGGGAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCTTCAAACTCCAGGAAGAACTGGAATGATAATCCCTGTTTCTACAGTATGCCTTGGATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        3112 TGTGAGATGCCAGAAATAAGTCCTCTGGACTAAGTGCAAGGAAATACAAGGGACATGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TATCTATCAGGCATCAGAAGGACTGCACATGTATGTATTACTGGGACATAAGTAAAAAAA
                                                                                                                                                                                                                                                                                                                                                                                                  GTAACATATCGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GAGCTTTCCTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAACATTATCAATCTAGTTGTTATTTTTTCTCTACGACAACCTTGACCTGGTCATCAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TTAAAGAATTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGTGAGATGCCAGAAATAAGTCCTCAGGACTAAGTGCAAGGAAATACAAGGGACATGGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TACATGCATGAAGAAGAACAAGAGTGAATGTAATAACAACCAAAAATCCAACATAAGAAAA
                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                  5,
                                                                                                                                                                                                                                                                                                                               Length 4017;
                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                             Query Match 53.2%; Score 1338; DB 3; Best Local Similarity 98.8%; Pred. No. 1.9e-313; Matches 1369; Conservative 0; Mismatches 15;
                  1. .4017
/organism="Mus musculus"
/mol type="mRNA"
/strain="C57BL/6J"
/db xref="FRNYOM DB:9830118H07"
/db xref="taxon:10090"
/clone="9830118H07"
ocation/Qualifiers
                                                                                                                                                /sex="male"
                                                                                                                                                                                                                      misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         919
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        916
                                                                                                                                                                                                                                                                                                                                                                                                      256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        436
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2812
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            496
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2872
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  556
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2932
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      736
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   856
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    3232
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            3292
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                919
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             196
                    source
 FEATURES
                                                                                                                                                                                                                                                                                           ORIGIN
```

8 6 8

8 8 8

g ò 음 송 음

8 6 8 6

8 8 8

g ò

```
Mational Institute on Aging/National Institutes of Health
Mational Institute on Aging/National Institutes of Health
Mational Institute on Aging/National Institutes of Health
Mational Institute, Suite 4000, Baltimore, MD 21224-6820, USA
Email: cdnaedigaun.grc.nia.nih.gov
Visit http://lgaun.grc.nia.nih.gov/cDNA/15k.html for details.
Plater: H3053 row: D column: 08
Bog primer: -21M13 Forward
High quality sequence stop: 731
                                                   Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (Dases 1 to 731)
Tanaka,T.S., Jaradat,S.A., Lim,M.K., Kargul,G.J., Wang,X., Garbovac,M.J., Pantano,S., Sano,Y., Piao,Y., Nagaraja,R., Doi,H., Wood,W.H. III. Becker,K.G. and Ko,M.S.H. Genome-wide expression profiling of mid-gestation placenta and embryo using a 15,000 mouse developmental cDNA microarray Proc. Natl. Acad. Sci. U.S.A. 97 (16), 9127-9132 (2000)
                                                                                                                                                                                                                                                  On Jan 26, 2001 this sequence version replaced gi:12549918.
Other_ESTs: H3053D08-5
                    Mus musculus (house mouse)
Mus musculus
                                                                                                                                                                                                                                                                                     Contact: George J. Kargul
Laboratory of Genetics
                                                                                                                                                                                                                                   10922068
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bource
KEYWORDS
SOURCE
ORGANISM
                                                                                        REFERENCE
AUTHORS
                                                                                                                                                                                           JOURNAL
MEDLINE
PUBMED
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURES
                                                                                                                                                           TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DRIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                 ATTTAAAAATTCATGTTCACATTTTTCTGTCTCAGGACTGCATTTATTGCATGATATTCT 1516
                                                                                                                                                                                                                                                                                                     GTCAATATAGACCATGTTTCTTCCAGACAAAGCCCATTAGGAA-CTTCAGCAGCAGTCAC 1575
                                                                                                                                                                                                                                                                                                                                                                         TATTAGCACTCATTACGAGCACTTCTATTAGACTTTCTCACAATCTGATTTTGAAATTGA 1695
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TAACCTTATTTTAAATACAAATATATCTTACAACCACACATTGACTTCTCTTTTAAAA 1755
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TTATTTTTGTTTGAAAATTTTGTGCATTTATATAATTCACTTTTAATGAACCCATCCTTA 1815
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CICICCICACIACAACCIGCICCIAICCACCICACIGAITITICCCICCAATITICAIGIG 1875
                                                                                                                                                           TCACCTGTACTTGTATCTACTGCGCAAGTAGAACCTGCTCAGTAGGTTCAAAGTGAAATT 1456
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTCCTCTTTGTTTTAAACCCACTCTATCTGCTCAGTGCTTCCTGAATGCACTTGAGTATA 1935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AGGCTTTCTACTGGACCATAGCCTCTCGGCAACCACATCCCATACTCCACCTGCTCCAGC 1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2055 ATTCATGCTGGAATTTGGGTTGTTTTATGTAACCTTTATTATATTGTGCTATCTCTTCTG 2114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2115 TATCCCTAGAATCTCTAGGAGCTTCATATAAAAGATTCTGAATTCCATCAAAGGGCACA 2174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AGGGAACAATAGCCAATTGACCATCTTCAGCTGAGGATGG-ATTTCATGAGCTCCATGCC 2054
                                                                                                                                                                              67 TCACCTGTACTTGTATCTACTGCGCAAGTAGAACCTGCTCAGTAGGTTCAAAGTGAAATT 126
                                                                                                                                                                                                                                                  GTCAATATAGACCATGTTTCTTCCAGACAAAGCCCTAAAGGAACCTTCAGCAGCAGTCAC 246
                                                                                                                                                                                                                                                                                                                                                                                               307 TATTAGCACTCATTACGAGCACTTCTATTAGACTTTCTCACAATCTGAATTTGAAATTGA 366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          427 TTATTTTTGTTTGAAAATTTTGTGCATTATATAATTCACTTTTAATGAACCCATCCTTA 486
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 607 AGGCTTTCTACTGGACCATAGCCTCTCGGCAACCACACTCCCACACTCCACCTGCTCCAGC 666
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1337 GATCTAGTCCACTCTTCCTGGAGCCCCATTTTCTCTGTGTTCTCTTCTATAAACTGGATT
                                                                                                                       GATCTACTCCACTCTGGAGCCCCATTTTCTCTGTGTTCTCTTCTATAAACTGGATT
                                                       Gaps
                                                       7
                      Length 865;
                                                       Indels
                32.5%; Score 818.6; DB 9; 98.5%; Pred. No. 1.3e-187; ive 0; Mismatches 11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CAAAGAAATCACAAAGACC 2193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CAAAGAAATCACAAAGACC 865
                                                   Matches 846; Conservative
                                  Similarity
                                                                                                                                                                                                                            1457
                                                                                                                                                           1397
                                                                                                                       7
                                                                                                                                                                                                                                                                  127
                                                                                                                                                                                                                                                                                                     1517
                                                                                                                                                                                                                                                                                                                                                                                                                                               1636
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1696
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1936
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2175
                                                                                                                                                                                                                                                                                                                                      187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1756
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1816
                  Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               487
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              667
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            847
                                                                                                                 요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   a
                                                                                                                                                          ò
                                                                                                                                                                                   g
                                                                                                                                                                                                                   ⋧
                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                 8 B 8
                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                             8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8 6 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ठे
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
```

/sex="Clones arrayed from a variety of cDNA libraries" /dev_stage="Clones arrayed from a variety of cDNA libraries"

/lab_host="DH10B"

/mol_type="mRNA" /strain="C57BL/6J" /db_xref="niaEST:H3053D08-3" /organism="Mus musculus"

Location/Qualifiers

/db_xref="taxon:10090" /clone="H3053D08"

```
/lone 11b="NIA Mouse 15K CDNA Clone Set"
/clone 11b="NIA Mouse 15K CDNA Clone Set"
/clone is among a rearrayed set of 15,247 clones from 11
clone is among a rearrayed set of 15,247 clones from 11
embryo cDNA libraries (including preimplantation stage
embryos from unfertilized egg to blastocyst, embryonic
part of E7.5 embryos, extraembryonic part of E7.5
part of E7.5 embryos, extraembryonic part of E7.5
embryos, and E12.5 female mesonephros/gonad) and one
newborn ovary CDNA library. Average insert size 1.5 kb.
All source libraries are cloned unidirectionally with
Oligo(dT)-Not primers. References include: (1)
Genome-wide expression profiling of mid-gestation
placenta and embryo using a 15,000 mouse developmental
CDNA microarray, 2000, Proc. Natl. Acad. Sci. U S A, 97:
9127-9122; (2) Large-scale CDNA analysis reveals phased
gene expression patterns during preimplantation
mouse
develolpment, 2000, Development, 127: 1737-1749; (3)
Genome-wide mapping of unselected transcripts from
extraembryonic tissue of 7:5-day mouse embryos reveals
enrichment in the t-complex and under-representation on
the X chromosome, 1998, Hum Mol Genet 7: 1967-1978."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             696
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   910 AAAAGACTIGIICCCAIIGCIAAAAGICCACAGCAIIGICIGAIGGICIIGCCAIAACCI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAATGACTTGTTCCCATTGCTAAAAGTCCACAGCATTGTCTGATGGTCTTGCCATAACCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels 1, Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 731;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ..
8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
28.1%; Score 706.2; DB 4;
Best Local Similarity 98.8%; Pred. No. 2.6e-160;
Matches 722; Conservative 0; Mismatches 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            731
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
```

BG067349 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone H3053D08-3 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone H3053D08 3', mRNA sequence.
BG067349.2 GI:40014147

BG067349/c DEFINITION ACCESSION

LOCUS

VERSION

ò a Š ద ò 요 8 셤 ò 셤 ò

```
Ravasi,T., Reed,J.C., Reed,D.J., Reid,J., Ring,B.Z., Ringwald,M., Sandalin,A., Schneider,C., Semple,C.A., Setou,M., Shimada,K., Sultana,R., Taylor,M.S., Teaedale,R.D., Tomita,M., Verardo,R., Wagner,L., Wahletedt,C., Wang,Y., Watenabe,Y., Welle,C., Wilming,L.G., Wynshaw-Boris,A., Yanagiawa,M., Yang,I., Yang,L.C., Wilming,L.G., Wynshaw-Boris,A., Yanagiawa,M., Yang,I., Yang,L., Yuan,Z., Zavolan,M., Zhu,Y., Zimmer,A., Carninci,P., Hayatsu,N., Hirozane-Kishikawa,T., Konno,H., Nakamura,M., Sakazume,N., Sato,K., Shiraki,T., Waki,K., Kawai,J., Aizawa,K., Arakwa,T., Fukuda,S., Hara,A., Hashizume,W., Imotani,R., Ishii,Y., Itoh,M., Kagawa,I., Myazaki,A., Sakai,K., Sasaki,D., Shibata,K., Shinagawa,A., Yasunishi,A., Yoshino,M., Waterston,R., Lander,E.S., Rogers,J., Birney,E. and Hayashizaki,Y.
Rogers,J., Birney,E. and Hayashizaki,Y.
Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Computational Analysis of Full-Length Mouse cDNAs Compared with Human Genome Sequences Mamm. Genome. 12, 673-677 (2001)
Normalization and subtraction of cap-trapper-selected CDNAs to prepare full-length cDNA libraries for trapper-selected cDNAs to prepare Genome Res. 10 (10), 1617-1630 (2000)
RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multicapillary sequencer. Genome Res. 10 (11), 175-1771 (2000)
Computer-based methods for the mouse full-length cDNA encyclopedia: real-time sequence full-length cDNA encyclopedia: real-time sequence in Mouse Genome Res. 11 (2), 281-289 (2001)
CDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Res. 11 (2), 281-289 (2001)
Division of Experimental Animal Research in Riken contributed to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ,
,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1744 CTCTTTTTAAAATTATTTTTGTTTGAAAATTTTGTGCATTTATAATTTCACTTTTAATG 1803
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Contact: Yoshihide Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN Genomic
Sciences Center(GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
17-22 Suchiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
Tel: 81-45-503-922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Email: genome-ree@gsc.riken.jp, URL:http://genome.gsc.riken.jp/
Adachi,J. Aizawa,K. Akimura,T. Arakawa,T. Carninci,P.,
Fukuda,S., Hashizume,W., Hayashida,K., Hirozane,T., Horri,F.,
Imotani,K., Ishii,Y., Itoh,M., Kagawa,T., Kawai,J., Kojima,Y.,
Kondo,S., Konno,H., Koya,S., Miyazaki,A., Murata,M., Nakamura,M.,
Nomura,K., Numazaki,R., Ohno,M., Ohsato,N., Saito,R., Sakazume,N.
Takeda,Y., Waki,K., Watahiki,A., Muramatsu,M., and Hayashizaki,Y.
Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               prepare mouse tissues. Tissues were provided by David A. Hume ( Depts. of Biochemistry and Microbiology/Parasitology Institute for Molecular Bioscience University of Queensland Brisbane, Q 4072 Australia ) whose assistance we gratefully acknowledge. Please visit our web site (http://genome.gsc.riken.go.jp) for further details.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /cell_type="macrophage"
/clone_lib="RIKEN full-length enriched, bone marrow
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match 27.7%; Score 696.6; DB 6; Length Best Local Similarity 96.8%; Pred. No. 5.6e-158; Matches 727; Conservative 0; Mismatches 22; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                'tissue type="bone marrow"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /db_xref="taxon:10090"
/clone="G530005P16"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /mol_type="mRNA"
/strain="C57BL/63"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           nacrophage"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        12466851
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE
PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DRIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Fukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. E. 1 (bases I to 756)

S. Okazaki, Y. Furuno, M., Kasukawa, T., Adachi, J., Bono, H., Kondo, S., Nikaido, I., Osato, N., Saito, R., Suzuki, H., Yamanaka, I., Kiyoawa, H., Yadyi, K., Tomaru, Y., Hasegawa, Y., Nogami, A., Schonbach, C., Gojobori, T., Baldarelli, R., Hill, D. P., Bult, C., Hume, D. A., Quackenbush, J., Schriml, L. M., Kanapin, A., Matsuda, H., Batalov, S., Batsel, K., M., Blake, J. A., Bradt, D., Brusic, V., Chothia, C., Corbani, L. E., Cousins, S., Dalla, E., Dragani, T. A., Fletcher, C.F., Forrest, A., Frazer, K.S., Gaasterland, T., Gariboldi, M., Gissi, C., Godzik, A., Gough, J., Grimmond, S., Gaustincich, S., Hirokawa, N., Jackeon, I.J., Jarvis, B.D., Kanai, A., Kawaji, H., Kawaswa, Y., Kedzierski, R.M., King, B.L., Konagaya, A., Kurochkin, I.V., Lee, Y., Lenhard, B., Lyons, P.A., Maglott, D. R., Maltais, L., Marchionni, L., McKenzie, L., Miki, H., Nagashima, T., Numata, K., Okido, T., Pavan, W.J., Pertea, G., Percea, G., Petrovsky, N., Pillai, R., Pontius, J.U., Qi, D., Ramachandran, S.,
                                                                                                                                                                                                                                                                                                                          1209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAGAGGTAGAAAGCAGATGTCTGTATAAAGAGACTTTAATGGTCACTATGTCATCCTGTT 1149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1210 TCCAACAGTGAGGAAGATGCATCTTTGAGTCTTTAAACTTACCTGCCGCTTGGGAGAATG 1269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1270 GCATGGCCTTCAGCAAGGACATCTCCATATGGAAAGGCCGGTCAAACTTCAGTTCCTAAC 1329
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1330 AGATTGTGATCTAGTCCACTCTTCCTGGAGCCCCATTTTCTCTGTGTTTTTCTTTTTAAA 1389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1390 CTGGATTTCACCTGTACTTGTATCTACTGCGCAAGTAGAACCTGCTCAGTAGGTTCAAAG 1449
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1450 TGAAATTATTTAAAAATTCATGTTCACATTTTTCTGTCTCAGGACTGCATTTATTGCATG 1509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1510 ATATTCTGTCAATATAGACCATGTTTCTTCCAGACAAAGCCCATTAGGAA-CTTCAGCAG 1568
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EST 17-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                  371 GCATGGCCTTCAGCAAGGACATCTCCATATGGAAAGGCCGGTCAAACTTCGGTTCCTAAC 312
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           251 CTGGATTTCACCTGTACTGTATTGACTGCGCAAGTAGAACCTGCTCAGTAGGTTCAAAG 192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               311 AGATTGTGATCTAGTCCACTCTTCCTGGAGCCCCATTTTCTCTGTGTTCTCTTCTATAAA 252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          71 CAGTCACACATTGTAATAAACATGTATCCTTGAGTAGGAAAATTAAACTAAAATTAAA 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             131 ATATTCTGTCAATATAGACCATGTTTCTTCCAGACAAAGCCCTAAAGGAACCTTCAGCAG 72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BY761232
BY761232 RIKEN full-length enriched, bone marrow macrophage Mus
musculus cDNA clone G530005P16 3', mRNA sequence.
                                                   551 AACAGGTAGAAAGCAGATGTCTGTATAAAGAGACTTTAATGGTCACTATGTCATCTGTT
                                                                                                                                                                                                                                                                                                                      CTTTCTACATCCTTGGCTCTAGCTTATCTATCTATCAGTACATAGATCACTTCTGTGTTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BY761232
BY761232.1 GI:27196760
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1629 TTTGTCATATT 1639
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    11 TTTGACATATT 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mus musculus
                                                                                                                                                                   1090
                                                                                                                                                                                                                                                                                                                      1150
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 5
BY761232
```

g

d ઠે 유

ò

셤

ò

```
further details.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12466853
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE
PUBMED
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                          JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORIGIN
                                                                                                                                                                                                                                       CACTIGAGTATAAGGCTITCTACIGGACCATAGCCTCTCGGCAACCACCATACTCC 1983
                                                                                                                                                                                                                                                                                                                             ACCTGCTCCAGCAGGAACAATAGCCAATTGACCATCTTCAGCTGAGGATGG-ATTTCAT 2042
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTATCTCTTCTGTATCCCTAGAATCTCTAGGAGCTTCATAAAAGATTCTGAATTCCA 2162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2403 ATTTAGAAATTGGACAGGTGGGGAATCATCCAATTGAAACTCGAAAAATGTAGTGTTTTG 2462
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BY764212 TY64312 RIXEN full-length enriched, B6-derived CD11 +ve dendritic cells Mus musculus cDNA clone F730001C01 3', mRNA sequence.
BY764212
                                                                  1804 AACCCATCCTTACTCTCCTCACTACAACCTGCTCCTATCCACCTCACTGATTTTCCCTCC 1863
                                                                                                                                                       CAATITICATGCCCCCCTCTTTGTTTTAAACCCCACTCTATCTGCTCAGTGCTTCCTGAATG 1923
                                                                                                                                                                                                                                                                                                                                                                                                                GAGCTCCATGCCATTCATGCTGGAATTTGGGTTGTTTTATGTAACCTTTATTATATTGTG 2102
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCAAAGGGCACACAAAGAAATCACAAAGACCATGTGGTTTTCTGTCCTTGGGTTTATTTGC 2222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAGGTTCATTACACTCCTTGACTTGTATATTGTGACATCCCTCCATCTTTAGGATGAA 2282
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2283 ACTGAAGTGATGATGATAGATAAGCTTTTTGGATCTTTTTCACTTTTTCTATTGCTGTGAA 2342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2343 ACATGACCCAAAACTATCTTGGGCCGGGAAAATTTTAATTTTATCTTAACATAAATTTCCT 2402
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               126 CATINICATGIGCTCCTCTTTGTTTAAACCCACTCTATCTGCTCAGTGCTTCCTGAATG 185
                                                                                                                                                                                                                                                               CACTTGAGTATAAAGGCTTTCTACTGGACCATAGCCTCTCGGCAACCACATCCCACTCC 245
                                                                                                                                                                                                                                                                                                                                                      246 ACCTGCTGCAGGAACAACAATAGCCAATTGACCATCCTCAGCTGAGGATGGAATTTCAT 305
                                                                                                                                                                                                                                                                                                                                                                                                                                      GAGCTCCATGCCATTCATGCTGGAATTTGGGTTGTTTTATGTTACCTTTATTATTTTGT 365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CTATCTCTTCTGTATCCCTAGAATCTCTAGGAGCTTCATAAAAAGATTCTGAATTCCA 425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATGGTTCATTACACTCCTTGACTTGTATATATTGTGACATCCCTCCATCTCTAGGATGAA 545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       546 ACTGAAGTGATCATGATAACTTTTGGATCTTTTCACTTTTCTATTGCTGTGAA 605
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia; Eutheria; Rodentiá; Sciurognathi; Muridae, Murinae, Mus. 1 (bases I to 705)
Okazaki, Y., Furuno, M., Kasukawa, T., Adachi, J., Bono, H., Kondo, S., Nikaido, I., Osato, N., Saito, R., Suzuki, H., Yamanaka, I., Kiyosawa, H., Yagi, K., Tomaru, Y., Hasegawa, Y., Nogami, A., Schonbach, C., Gojobori, T., Baldarelli, R., Hill, D. P., Bult, C., Hume, D. A., Quackenbush, J., Schriml, L. M., Kanapin, A., Matsuda, H., Chothia, C., Corbani, L. E., Cousins, S., Dalla, E., Dragani, T., Fletcher, C. F., Forrest, A., Frazer, K.S., Gaasterland, T.,
66 AANCCATCCTTACTCTCCTCACTACAACNTGCTCCCTATCCACCTCANTGATTTTCCCTCC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               666 ATTTAGAAATTGGACAGGTGGGGAATCATCCAATTGAAACTCGAAAAATGTAGTGTTTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          606 ACATGAGCCAAAACTATCTTGGGCCGGGAAAATTTTAATTTTATCTTAACATAAATTTCCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2463 TACATTAGGTTACAGAAAAACAACTTTAGCC 2493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 726 TACATTAGGTTACAGAAAAACAACTTTAGCC 756
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BY764212.1 GI:27201526
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mus musculus
                                                                                                                                                       1864
                                                                                                                                                                                                                                                                                   186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2223
                                                                                                                                                                                                                                         1924
                                                                                                                                                                                                                                                                                                                             1984
                                                                                                                                                                                                                                                                                                                                                                                                                2043
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2103
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       486
                                                                                                                                                                                                                                                                                                                                                                                                                                                          306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BY764212
                                                                                                 셤
                                                                                                                                       ò
                                                                                                                                                                                        원
                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠ
                                                                  ઠે
                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
```

```
Guartholdi, N. Gissic, C. Goddik, N. Gowbh, J. Sarvis, E.D. Kanai, A. Kawaji, H. Kwasawa, Y. Kedisterik, H. M. Kindis, E.D. Kanai, H. Kawaji, H. Kwasawa, Y. Kedisterik, H. M. Kindis, E.D. Kanai, H. Kawasawa, Y. Kedisterik, H. M. Kindis, E.D. Kanai, M. Karishin, I. V., Lee, Y. Lenhard, B. L. yone, P. A. Neglott, D. B., Maltais, L. Watchin, I. V., Lee, Y. Lenhard, B. L. Berson, B. L. Kondor, H. M. Rechinding, B. L. Kondor, H. M. Rechinding, B. L. Kondor, H. M. Rechinding, B. C. Kondor, H. Rechinding, B. C. Rechinds, R. O. Hondor, J. Berson, B. S. Marchinon, T. Rechinding, B. C. Rechinds, R. O. Hondor, J. M. Koghner, L. Watching, J. Parker, J. Palca, M. P. Taylor, M. M. Rechinding, B. C. Hondor, M. Welle, C. L. Wang, Y. Werner, B. M. Welle, J. Wang, Z. Zavolan, M. Zhu, Y. Zhu, Y. Zhung, Y. Werner, B. M. Sakawa, K. K. Shakama, M. Mindig, L. Whinhay, D. C. Man, Y. Kanno, H. Watana, C. Zavolan, M. Zhu, Y. Zhu, Y. Kanno, H. Watana, B. M. Marana, R. Marana, R. Marana, R. Marana, R. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. Marana, M. M
```

```
source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE
PUBMED
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                             TITLE
                                                                                                                                                                                                                                             1637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1817
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1877
                                         2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1998 GGAACAATAGCCAATTGACCATCTTCAGCTGAGGATGG-ATTTCATGAGCTCCATGCCAT 2056
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2057 TCATGCTGGAATTTGGGTTGTTTTATGTAACCTTTATTATATTGTGCTATCTCTTTGTA 2116
                                                                                                                                                            1519 CAATATAGACCATGTTTCTTCCAGACAAAGCCCATTAGGAA-CTTCAGCAGCAGTCACAC 1577
                                                                                                                                                                                                                                                                                                                        TTAGCACTCATTACGAGCACTTCTATTAGACTTTCTCACAATCTGATTTTGAAATTGATA 1697
                                                                                                                                                                                                                                                                                                                                                                                                      ACCTTATTTTAAATACAAATATATCTTACAACCACACATTTGACTTCTCTTTTTAAATT 1757
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CCTCTTTGTTTTAAACCCACTCTATCTGCTCAGTGCTTCCTGAATGCACTTGAGTATAAG 1937
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1938 GCTTTCTACTGGACCATAGCCTCTCGGCAACCACCATCCCATACTCCACCTGCTCCAGCAG 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EST 17-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                               300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     900
                                                                                                                                                                                     61 CAATATAGACCATGTTTCTTCCAGACAAGCCCTAAAGGAACCTTCAGCAGCAGTCACAC 120
                                                                                                                                                                                                                                                                  240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       421 CCTCTTTGTTTTAAACCCACTCTATCTGCTCAGTGCTTCCTGAATGCACTTGAGTATAAG 480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              601 TCATGCTGGAATTIGGGTTGTTTTATGTTACCTTTATTATATTGTGCTATCTCTTCTGTA 660
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 701)
1 (bases 1 to 701)
1 (bases 1 to 701)
                                                                                                                        9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 (bases 1 to 701)

Nozaaki, Y., Puruno, M., Kasukawa, T., Adachi, J., Bono, H., Kondo, S.,

Nikaido, I., Osato, N., Saito, R., Suzuki, H., Yamanaka, I.,

Kiyosawa, H., Yagi, K., Tomaru, Y., Hasegawa, Y., Nogami, A.,

Schonbach, C., Gojobori, T., Baldarelli, R., Hill, D.P., Bult, C.,

Hume, D.A., Quackenbush, J., Schriml, L.M., Kanapin, A., Matsuda, H.,
                                                                                                                                                                                                                                           1 TTAAAAATTCATGTTCACATTTTTTCTCTCAGGACTGCATTTANTGCATGATATTCTGT
                                                                                                                                                                                                                                                                                                                                                                181 TTAGCACTCATTACGAGCACTTCTATTAGACTTTCTCACAATCTGATTTTGATA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1758 ATTTTTGAAAATTTTGTGCATTTATATAATTCACTTTTAATGAACCCATCCTTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         361 CTCCTCACTACAACCTGCTCTTATCCACCTCACTGATTTCCCCTCCCATTTCATGTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     541 GCAACAATAGCCAATTGACCATCCTCAGCTGAGGATGGAATTTCATGAGCTCCATGCCAT
                                                                                 1459 TTAAAAATTCATGTTCACATTTTTCTGTCTCAGGACTGCATTTATTGCATGATATTCTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                             241 ACCTTATTTTAATACAAATATATCTTACAACCACACATTTGACTTCTCTTTTAAAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          301 ATTTTTGAAAATTTTGTGCATTTATATATTCACTTTTAATGAACCCATCCTTACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CTCCTCACTACAACCTGCTCCTATCCACCTCACTGATTTTCCCCCCAATTTCATGTGCT
                                           Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BY763813 RIKEN full-length enriched, NOD-derived CD11c +ve dendritic cells Mus musculus cDNA clone F630012G18 3', mRNA
                                         5;
  Length 705;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2117 TCCCTAGAATCTCTAGGAGCTTCATATTAAAAGATTCTGAATTCC 2161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 661 TCCCTAGAATCTCTAGGAGCTTCATATAAAAGATTCTGAATTCC 705
                                         Indels
    DB 6;
                                           10;
  Score 665.6; DB 6;
Pred. No. 1.9e-150;
0; Mismatches 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BY763813.1 GI:27200881
Query Match
Best Local Similarity 98.3%;
Matches 693; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                sequence.
                                                                                                                                                                                                                                                                                                                        1638
                                                                                                                                                                                                                                                                                                                                                                                                        1698
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1818
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1878
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACCESSION
VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BY763813
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                            ò
                                                                                                                                                                                               셤
                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                               a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ઠે
```

```
Chocheld, S. Bereal, K. Blake, J. K. Brate, D. Bruste, V. Cochenia, C. Cochenia, L. E. Couchins, S. Daila, E. Dragani, T. A. Garibold, M. Gissi, C., Godsik, A., Gough, J., Grimmond, S. Garibold, M. Gissi, C., Godsik, A., Gough, J., Grimmond, S. Gastincich, S. Hizokawa, N. Jackson, J. Grate, E. Compail, M. Gissi, C., Godsik, A., Gough, J., Grimmond, S. Gastincich, S. Hizokawa, N. Jackson, L. Grate, E. Dragani, A., Kawasawa, Y., Kadisarki, R. M., King, B. L., Konsaya, A., Karisi, H., Kawasawa, Y., Kadisarki, R. M., King, B. L., Konsaya, A., Karisi, H., Kawasawa, Y., Kadisarki, R. M., Mill, M. Barte, C. Bambie, C. M. Selou, M. Shinada, K., Shadishi, M., Sandelin, A., Sahneider, C. Bambie, C. A. Secoul, S. R. Bill, M., Sandelin, A., Shenisder, C. Sambie, C. Mang, Y. Watanaba, K. Takanaka, Y. Taylor, M. S., Tasadaka, M. Shinagawa, M. Shenisder, C. Sambie, C. Wang, Y. Watanaba, K. Takanaka, Y. Taylor, M. S., Tasadaka, M. Shinagawa, M. Sandelin, A., Sahneider, C. Sambie, C. Wang, Y. Matanaba, M. Sandelin, A. Yashinah, M. Wallstee, C. Mang, Y. Watanaba, M. Sandelin, A. Yashinah, M. Wallstee, C. Mang, Y. Watanaba, M. Sandelin, A. Sandelin, A. Yashinah, M. Wallstee, C. Wang, Y. Watanaba, M. Sander, C. Wang, M. Wallstee, C. Wang, M. Watana, M. Sander, E. S., Shinagawa, Y. Yashinah, M. Watana, T. Wall, M. Magawa, M. Yashinah, M. Watana, T. Wall, M. Magawa, M. Yashinah, M. Watana, J. Wall, M. Wagawa, J. Wall, M. Watana, M. Wagawa, J. Sander, C. Wang, W. Watanaba, J. Wall, M. Wagawa, J. Wall, M. Wagawa, J. Wall, M. Wagawa, J. Wall, M. Wagawa, J. Wall, M. Wagawa, J. Wall, M. Wall, M. Watana, J. Wall, M. Wagawa, J. Wall, M. Wagawa, J. Wall, M. Wagawa, J. Sander, J. Wall, M. Wagawa, J. Wall, M. Wagawa, J. Wall, M. Wagawa, J. Wall, M. Wagawa, J. Wall, M. Wagawa, J. Wall, M. Wagawa, J. Wall, M. Wagawa, J. Wall, M. Wagawa, J. Wall, M. Wagawa, J. Wall, M. Wagawa, J. Wall, M. Wagawa, J. Wall, M. Wagawa, J. Wall, M. Wagawa, J. Wall, M. Wagawa, J. Wall, M. Wagawa, J. Wall, M. Wagawa, J. Wall, M. Wagawa, J. Wall, M. Wagawa, J. Wall, M.
```

/cell_type="NOD-derived CD11c +ve dendritic cells"

/db_xref="taxon:10090" /clone="F630012G18"

g

ò g ò 셤 ò 쉽 ò

ઠે

```
source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JOURNAL
MEDLINE
PUBMED
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1448
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1567
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1687
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BY743963 BY743963 RIKEN full-length enriched, bone marrow macrophage Musmusculus cDNA clone I830025Cl3 5', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CAGATIGIGATCTAGTCCACTCTTCCTGGAGCCCCATTTTCTCTGTGTTCTTCTATAA 1388
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1449 GTGAAATTATTAAAAATTCATGTTCACATTTTTCTGTCTCAGGACTGCATTTATTGCAT 1508
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              358
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           658
                                                                                                                                                                                                                                                                                                                                                                                                            TCTTTCTACATCCNTGGGTCTAGCTTATCTATCTATCAGTACATAGATCACTTCTGTGTT 178
/clone_lib="RIKEN full-length enriched, NOD-derived CD11c
+ve dendritic cells"
                                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mus musculus
Wakaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
1. (bases 1 to 717)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 (bases 1 to 717)
Okazaki,Y., Furuno,M., Kasukawa,T., Adachi,J., Bono,H., Kondo,S.,
Nikaido,I., Osato,N., Saito,R., Suzuki,H., Yamanaka,I.,
Kiyosawa,H., Yagi,K., Tomaru,Y., Hasegawa,Y., Nogami,A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        239 GGCATGGCCTTCAGCAAGGACATCTCCATATGGAAAGGCCGGTCAAACTTCAGTTCCTAA
                                                                                                                                                                                       1029 GGATTCTCCTTTTCACATCTGTCTTGCACATCTGTCTTGCTCATGAGAATTGATATGAAG
                                                                                                                                                                                                                                                                                                                CTCCAACAGTGAAGATGCATCTTTGAGTCTTTAAACTTACCTGCCGCTTGGGAGAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CTCCAACAGTGAGGAAGAAGGATGCTTTGAGTCTTTAAACTTACCTGCCGCTTGGGAAGAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GGCATGGCCTTCAGCAAGGACATCTCCATATGGAAAGGCCGGTCAAACTTCAGTTCCTAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   299 CAGATTGTGGATCTAGTCCACTCTTCTGGAGCCCCATTTTCTCTGTGTTCTCTTATAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  359 ACTGGATTTCACCTGTACTTGTATCTACTGCGCAAGTAGAACCTGCTCAGTAGGTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  419 GTGAAATTATTTAAAAATTCATGTTCACATTTTTTCTGTCTCAGGACTGCATTTATTGCAT
                                                                                                                                                                                                                                      1 GGATTCTCCTTTTCACATCTGTCTGGCACATCTGTCTGGCTCATGAGATTGATATGAAG
                                                                                                                                                                                                                                                                                  GAAGAGGTAGAAAGCAGATGTCTGTATAAAGAGACTTTAATGGTCACTATGTCATCCTGT
                                                                                                                                                                                                                                                                                                                                                                                TCTTTCTACATCCTTGGCTCTAGCTTATCTATCAGTACATAGATCACTTCTGTGTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACTGGATTTCACCTGTACTTGTATCTACTGCGCAAGTAGAACCTGCTCAGTAGGTTCAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GATATICIGICAATATAGACCATGTITCTICCAGACAAAGCCCATTAGGAA-CTTCAGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             479 GATATTCTGTCAATATAGACCATGTTTCTTCCAGACAAAGCCCTAAAGGAACCTTCAGCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        539 GCAGTCACACTTGTAATAAACATGTATCCTTGAGTAGGAAAATTAAACTAAATTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          628 ATTIGICATATIAGCACTCATIACGAGCACTICIATIAGACTITICICACAATCIGATITI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      599 Artigacatatragcactcatraccaccactrcrarragactrictcacaarcrcarrir
                                                                                                                                             Gaps
                                                                                                                                             3,
                                                                                                Length 701;
                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1688 GAAATTGATAACCTTATTTTAAATACAAATATATCTTACAACC 1730
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 655.2; DB 6;
Pred. No. 6.4e-148;
0; Mismatches 14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BY743963
BY743963.1 GI:27170313
                                                                                           Query Match
Best Local Similarity 97.6%;
Matches 686; Conservative
                                                                                                                                                                                                                                                                                     1089
                                                                                                                                                                                                                                                                                                                                                                                1149
                                                                                                                                                                                                                                                                                                                                                                                                                               119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1329
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1389
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1568
                                                                                                                                                                                                                                                                                                                                    61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BY743963
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AUTHORS
                                               ORIGIN
```

a

엄

ò

원

8

g

8

g

ò

g

Š

```
Schonbach, C., Gojobori, T., Baldarelli, R., Hill, D.P., Bult, C., Hume, D.A., Quackenbush, J., Schriml, L.M., Kanapin, A., Matsuda, H., Batalo, V., Brusico, V., Chothia, C., Corbani, L.B., Cousins, S., Dalla, B., Dragani, T.A., Chothia, C., Corbani, L.B., Cousins, S., Dalla, B., Dragani, T.A., Fletcher, C.F., Forrest, A., Frazer, K.S., Gasterland, T., Gasi, C., Godzik, A., Gough, J., Grimmond, S., Gustincich, S., Hirokawa, N., Jackson, I.J., Jarvis, E.D., Kanagaya, A., Kawaji, H., Kawasawa, Y., Kedzist, R.M., King, B.L., Konagaya, A., Karochkin, I.V., Lee, Y., Lenhard, B., Lyons, P.A., Maglott, D.R., Maltais, L., Marchionni, L., McKercie, G., Pesole, G., Petrocky, N., Pillai, R., Pontius, J. U., Qi, D., Ramachandran, S., Ravasi, T., Reed, J.C., Reed, D.J., Ring, B.Z., Kingwald, M., Sandelin, A., Schneider, C., Semple, C.A., Setou, M., Shimada, K., Sultana, R., Takenaka, Y., Taylor, M.S., Teasdale, R.D., Tomita, M., Verrado, K., Wagner, L., Wahlested, C., Wang, Y., Watanabe, Y., Wells, C., Wilming, L.G., Wynshaw-Boris, A., Yanagisawa, M., Yang, I., Yang, L., Yang, Z., Zavolan, M., Zhu, Y., Zimmer, A., Carninci, P., Rakawa, T., Eukuda, S., Hara, A., Hashizume, W., Imotani, K., Ishii, Y., Itoh, M., Kagawa, I., Miyazaki, A., Sakai, K., Sasaki, D., Shibata, K., Shinagawa, A., Yasuulshi, A., Yashinagawa, A., Yasuulshi, A., Ya
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Computational Analysis of Full-Length Mouse cDNAs Compared with Human Genome Sequences Mamm. Genome. 12, 673-677 (2001)
Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes. Genome Res. 10 (10), 1617-1630 (2000)
RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multicapillary sequencer. Genome Res. 10 (11), 1757-1771 (2000)
Computer-based methods for the mouse full-length cDNA encyclopedia: real-time sequence-clustering for construction of a nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001) cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences (2001) cdnome Science Laboratory in RIKEN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Contact: Yoshihide Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN Genomic
Sciences Center (GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
The Institute of Physical and Chemical Research (RIKEN)
The Institute of Physical and Chemical Research (RIKEN)
Tel: 81-45-503-922
Fax: 81-45-503-9216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Email: genome-res@gec.riken.jp, URL:http://genome.gec.riken.jp/
Adachi,J., Aizawa,K., Akimura,T., Arakawa,T., Carninci,P.,
Fukuda,S., Hashizume,W., Hayashida,K., Hirozane,T., Hori,P.,
Imoceni,K., Ishii,Y., Itoh,M., Kagawa,I., Kawai,J., Kojima,Y.,
Kondo,S., Konno,H., Koya,S., Miyazaki,A., Murata,M., Nakamura,M.,
Nomura,K., Numazaki,R., Ohno,M., Ohacto,N., Saito,R., Sakazume,N.,
Takeda,Y., Waki,K., Wataniki,A., Muramateu,M. and Hayashizaki,Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Division of Experimental Animal Research in Riken contributed to prepare mouse tissues.

Tissues were provided by David A. Hume (Depts. of Biochemistry and Microbiology/Parasitology Institute for Molecular Bioscience University of Queensland Brisbane, Q 4072 Australia ) whose assistance we gratefully acknowledge.

Please visit our web site (http://genome.goc.riken.go.jp) for further details.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /db_xref="taxon:10090"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nature 420, 563-573 (2002)
```

```
BY744630 BY744630 FIKEN full-length enriched, bone marrow macrophage Mus musculus cDNA clone 1830042L06 5', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CTCCTCTTTGTTTTAAACCCACTCTATCTGCTCAGTGCTTCCTGAATGCACTTGAGTATA 1935
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AGGCTTTCTACTGGACCATAGCCTCTCGGCAACCACCCCATACTCCACCTGCTCCAGC 1995
   van der Weyden, L.,
Nishijima, I., Yu, Y.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTCAATATAGACCATGTTTCTTCCAGACAAAGCCCATTAGGAA-CTTCAGCAGCAGTCAC
                                                                              Cambridgeshire,
                                                                                                                                                                                                                                                                                                                                                                                                                                       TCACCTGTACTTGTATCTACTGCGCAAGTAGAACCTGCTCAGTAGGTTCAAAGTGAAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                              TCACCTGTACTTGTATCTACTGCGCAAGTAGAACCTGCTCAGTAGGTTCAAAGTGAAATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATTTAAAAATTCATGTTCACATTTTTCTGTCTCAGGACTGCATTTATTGCATGATATTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATTTAAAAATTCATGTTCACATTTTTTCTGTCTCAGGACTGCATTTATTGCATGATATTTCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GTCAATATAGACCATGTTTCTTCCAGACAAAAGCCCTAAAAGAACCTTCAGCAGCAGTCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TATTAGCACTCATTACGAGCACTTCTATTAGACTTTCTCACAATTGATTTGAAATTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     367 TAACCTTATTTAAATACAAATATATCTTACAACCACACATTGACTTCTCTTTTTAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TTATTTTTTTTTTGTTTGAAAATTTTTGTGCATTTATAAATTCACTTTTAATGAACCCATCCTTA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CTCCTCTTGTTTTANACCCACTCTATCTGCTCAGTGCTTCCTGAATGCACTTGAGTATA
                                                                                                                                                                                                                                                                                                                                                                                        GATCTAGTCCACTCTTCCTGGAGCCCCATTTTCTCTCTGTGTTCTCTTCTATAAACTGGATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TATTAGCACTCATTACGAGCACTTCTATTAGACTTTTCTCACAATCTGATTTTGAAATTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TAACCTTATTTTAAATACAAATATATCTTACAACCACACATTTGACTTCTCTTTTAAAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TTATTTTTTGAAAATTTTGIGCATTTATAATTCACTTTTAATGAACCCATCCTTA
                                                                                                                                                                                                                                                                                                                            ä
                                                                                                                                                                                                                                                                                       619;
                                                                                                                                                                                                                                                                                     Length
                                                                                                                                                                                                                                                                                                                          Indels
Adams, D.J., Biggs, P.J., Cox, A.V., Davies, R.M., v Jonkers, J., Smith, J., Plumb, R.W., Taylor, R.G., N Rogers, J. and Bradley, A.
Direct Submission
Submitted (20-FEB-2004) Sanger Centre, Hinxton, CB10 1SA, UK. http://www.sanger.ac.uk/MICER
                                                                                                                                                                                                                                                                                     Score 650.4; DB 9;
Pred. No. 9.3e-147;
); Mismatches 7;
                                                                                                                                                                                                                                                                                                                                                                 GATCTAGTCCACTCTTCCTGGAGCCCCATTTTCT
                                                                                                                                    1. .679
/organism="Mus musculus"
/mol type="genomic DNA"
/db_xref="taxon:10090"
/clone="MHNN71g15"
/clone_lib="MHPN"
                                                                                                                                                        musculus"
                                                                                                                                                                                                                                                                                                                            ö
                                                                                                                                                                                                                                                                                     25.8%;
98.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AGGGAACAATAGC 2008
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    619
                                                                                                                                                                                                                                                                                   Query Match
Best Local Similarity 98.8
Matches 665, Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AGGCAACAATAGC
                                                                                                                                                                                                                                                                                                                                                                                                    7
                                                                                                                                                                                                                                                                                                                                                                                                                                         1397
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1457
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1576
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1636
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1696
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1756
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1816
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1876
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1936
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 307
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   427
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           487
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    547
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            607
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    667
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RESULT 10
BY744630
LOCUS
DEFINITION
                                                                                                                                        source
                                                          TITLE
JOURNAL
       AUTHORS
                                                                                                                   FEATURES
                                                                                                                                                                                                                                                   ORIGIN
                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         음 &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CR071785 679 bp DNA linear GSS 05-JUL-2004
Reverse strand read from insert in 5'HPRT insertion targeting and chromosome engineering clone MHPN371g15, genomic survey sequence.
CR071785.1 GI:49805375
GSS; genome survey sequence; MICER.
Mus musculus (house mouse)
Mus musculus (house mouse)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; Musinae; M
                                                                                                                                                                         3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           361
                                                                                                                                                                                                                                                                                       121
                                                                                                                                                                                                                                                                                                          181
                                                                                                                                                                                                                                                                                                                                                                                                    180
                                                                                                                                                                                                                                                                                                                                                                                                                                         241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AGTCCCTGAGCTTCTGGGGATGCTGGGGGAGCCCAAC-ATATAGTTTTGGTGGAGGACTGTG 659
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCACCAGATGTGTGGTAACATATCGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCAC 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AGTCCCTGACCTTCTGGGATGCTGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTG 661
                                                                                                                                                                                                                                                 9
                                                                                                                                                                                                                61
                                                                                                                                                                                                                                                                                                                                                                                  GACTGACAGACCAGGTGGTGGTGGTGGTGGTGGTGGTGGTGATACACCTTTCACAG
                                                                                                                                                                                                                                GGTCTGTTAGTCTTGAACTTTTAAAAAGGGGCCAAGGATTCACCATTCAAGACTCACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                              CCCAAGTGCTCTCCTGGACGATAGCCGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TCACCAGATGTGTGTCGTAACATATCGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCTGGTCATCAAGTTTAAAGAATTGCTCAGACATGGGGGGCTCACCTGGTGTTATCGACA
                                                                                                                                                                                                            GGTCTGTTACTCTTGAACTTTTAAAAAGGGGCCAAGGATTCACCATTCAAGACTCACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                         CCCAAGTGCTCTCCTGGACGATAGCCGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ATAGAAATATTAAGGAGCTTTCCTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GTCCTTTGAACTGGAAACATTATCAATCTAGTTGTTATTTTTTCTCTACGACAACCTTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GLCCTTTGAACTGGAAACATTATCAATCTAGTTGTTATTTTTTTCTCTACGACAACCTTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GACTGACAGACCAGGTGGTGGAGGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAG
                                                                                                                                                                                                                                                                                     TCCAGGGGCTCTTTCTAAACTGAGAAGAAGGAAAAGGAAAAGGCAGGAAAAAAGGAA
                                                                                                                                                                                                                                                                                                                                                               CCTGGTCATCAAGTTAAAGAATTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACA
                                                                                                                                                                         Gaps
                                                              marrow
                                                                                                                                                                         5.
                                                            bone
                                                                                                                                      Length 717;
                                                                                                                                                                       Indels
/clone="1830025C13"
/tissue_type="bone_marrow"
/cell_type="macrophage"
/clone_lib="RIKEN full-length_enriched,
                                                                                                                                  Score 650.8; DB 6;
Pred. No. 7.5e-147;
0; Mismatches 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                662 CCACCATAAGGGACTCTTCAAACTCCAG 689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -CACCATAAGGGACTCTTCAACTCCCAG 686
                                                                                                                                Query Match 25.9%;
Best Local Similarity 98.4%;
Matches 677; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   541
                                                                                                                                                                                                                                                                                     62
                                                                                                                                                                                                                                                                                                                          61
                                                                                                                                                                                                                                                                                                                                                               122
                                                                                                                                                                                                                                                                                                                                                                                                    121
                                                                                                                                                                                                                                                                                                                                                                                                                                       182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT 9
CR071785
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE
                                                                                               ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     원 수 명
                                                                                                                                                                                                                                              В
                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                           8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                              ઠે
```

186

1456

99

Gape

126

1575

246

1635

306

1695

1755

426

1815

486

546

SOURCE

```
242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         662
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 11
                                                                                                                                                                    FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BY747821
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                             Nus musculus; Sciurognath; Muridae; Buteleostom; Mammalia; Butheria; Rodentia; Sciurognath; Muridae; Murinae; Muscasta; Lo 674)

Expassa, H., Furuno, M., Kasukawa, T., Adachi, J., Bono, H., Kondo, S., Nikaido, I., Osato, N.; Saito, R., Suzuki, H., Yamanaka, I., Kiyosawa, H., Yadjak, T. Tomaru, Y. Hasegawa, Y., Nogami, A., Schonbach, C., Gojobori, T., Baldarelli, R., Hill, D.P., Bult, C., Hume, D.A., Quackenbush, J., Schriml, L.M., Kanapin, A., Mateuda, H., Bateloy, S., Balsel, K.W., Blake, J.A., Bradt, D., Brusic, V., Chothia, C., Corbani, L.E., Cousins, S., Dalla, E., Dragani, T.A., Fletcher, C.F., Forrest, A., Frazer, K.S., Gaasterland, T., Gasil, C., Godzik, A., Gough, J., Girmmond, S., Gustincich, S., Hirokawa, N., Jackson, J.J., Mardis, E.D., Kanaja, H., Kawasawa, Y., Kedzierski, R.M., King, B.L., Konagaya, A., Kuyonshin, L., Marchionni, L., MoKenie, L., Miki, H., Nagashima, T., Numata, K., Okido, T., Pavan, W.J., Pertea, G., Pesole, G., Petrovsky, M., Pillai, R., Pontius, J.U., Qi, D., Ramachandran, S., Ravasi, T., Reed, J.C., Redd, J., Sengle, C.A., Setou, M., Shimada, K., Schneider, C., Semple, C.A., Setou, M., Shimada, K., Sandelin, A., Schneider, C., Semple, C.A., Setou, M., Shimada, K., Sandis, L., Yang, L., Wang, Y., Watanabe, Y., Watanabe, Y., Watanabe, Y., Watanabe, Y., Watanabe, Y., Watanabe, Y., Watanabe, Y., Watanabe, Y., Watanabe, Y., Watanabe, Y., Watanabe, Y., Watanabe, Y., Watanabe, Y., Watanabe, Y., Yang, I., Wang, Y., Yang, I., Wang, Y., Yang, I., Watanabe, Y., Watanabe, Y., Sandis, M., Yang, I., Watawa, T., Fukuda, S., Hara, A., Hashiaume, W., Imotani, K., Indhi, Y., Sato, K., Hara, A., Hashiaume, W., Madaya, L., Wang, Y., Yang, Yang, Y., Yang, Yang, Y., Yang, Y., Yang, Y., Sasaki, D., Shibata, Y., Shibata, Y., Shinagawa, T., Yang, Yang, Y., Yang, Yang, Y., Yang, Yang, Y., Yang, Yang, Y., Yang, Yang, Y., Yang, Yang, Yang, Yang, Yang, Yang, Yang, Yang, Yang, Yang, Yang, Yang, Yang, Yang, Yang, Yang, Yang, Yang, Yang, Yang, Yang, Yang, Yang, Yang, Yang, Yang, Yang, Yang, Yang, Yang, Yang, 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  encyclopedia: real-time sequence clustering for construction of a nonredundant CDNA library. Genome Res. 11 (2), 281-289 (2001) CDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Contact: Yoshihide Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN Genomic
Laboratory for Genome Exploration Research Group, RIKEN Genomic
Captences Center(GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
Tel: 81-45-503-9222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Email: genome-res@gsc.riken.jp, URL:http://genome.gsc.riken.jp/
ddchi.j., Aizawa,K., Akimura,T., Azakawa,T., Carninci,P.,
Fukuda,S., Hashizume,W., Hayashida,K., Hirozane,T., Hori,F.,
Imotani,K., Ishi,Y., Itoh,M., Kagawa,I., Kawai,J., Kojima,Y.,
Kondo,S., Konno,H., Koya,S., Miyazaki,A., Murata,M., Nakamura,M.,
Sano,H., Sasaki,R., Ohno,M., Ohasto,N., Saito,R., Sakazume,N.,
Takeda,Y., Waki,K., Watahiki,A., Muramatsu,M., and Hayashizaki,Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human Genome Sequences Mamm. Genome. 12, 673-677 (2001)

Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes. Genome Res. 10 (10), 1617-1630 (2000)

RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multicapillary sequencer. Genome Res. 10 (11), 1757-1771 (2000)

Computer-based methods for the mouse full-length cDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                prepare mouse tissues.
Tissues were provided by David A. Hume ( Depts. of Biochemistry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Computational Analysis of Full-Length Mouse cDNAs Compared with
                                                                                                  Mus musculus (house mouse)
                                    BY744630.1 GI:27171386
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           12466851
ACCESSION
VERSION
KEYWORDS
                                                                                                                               ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE
PUBMED
COMMENT
                                                                                                                                                                                                                        REFERENCE
                                                                                                                                                                                                                                                         AUTHORS
```

JOURNAL TITLE

```
121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  240
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             241 TCACCAGATGTGTCGTAACATATCGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCAC 300
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          540
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9
and Microbiology/Parasitology Institute for Molecular Bioscience University of Queensland Brisbane,Q 4072 Australia ) whose assistance we gratefully acknowledge.
Please visit our web site (http://genome.gsc.riken.go.jp) for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               181 CCCAAGTGCTCTCCTGGACGATAGCCGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATAGAAATATTAAGGAGCTTTCCTGCTACAGTGGGCCATCAGGTTCAGTCAAGAATTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GTCCTTTGAACTGGAAACATTATCAATCTAGTTGTTATTTTTTTCTCTACGACAACCTTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CCTGGTCATCAAGTTTAAAGAATTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AGTCCCTGACCTTCTGGGATGCTGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            601 AGTCCCTGAGCTTCTGGGATGCTGGGGAGCCCCAAC-ATATAGTTNTGGTGGAGGACGATGTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 GGTCTGTTAGTCTTTGAACTTTTAAAAGAGGCCAAGGATTCACCATTCAAGACTCACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCCAGGGGCTCTTTCTAAACTGAGAAGAGAAGGAAAAGGAAAAGGCAGGAAAAAGGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61 TCCAGGGGCTCTTTCTAAACTGAGAAGGAAGGAAAAGGAAAAAGGCAGGAAAAAGGAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TCACCAGATGTGTCGTAACATATCGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            302 ATAGAAATATTAAGGAGCTTTCCTGCTACAGTGAGGCATCAGGTTCAGGATTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCTGGTCATCAAGTTTAAAGAATTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CACAGGAAGAGCAGGAATTCCTTTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CACAGGAAGAGGAAGAATTCCTTTTTTCGCACAAAACCTANAAGGAAAGAGTTTTATATATTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GACTGACAGACCAGGTGGTGGAGGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      541 GACTGACAGACCAGGTGGTGGAGGGTCAGTGGCAATGGGTGGATGATACACCTTTCACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GGTCTGTTACTCTTGAACTTTTAAAAAGAGGCCAAGGATTCACCATTCAAGACTCACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CCCAAGTGCTCTCCTGGACGATAGCCGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                       /clone="1830042106"
/tissue_type="bone marrow"
/cell_type="macrophage"
/clone_lib="RIKEN full-length enriched, bone marrow
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1,
                                                                                                                                                                                                                                                                                                                                                                                                                           Length 674;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IndelB
                                                                                                                                                                                                                                                                                                                                                                                                                         DB 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11;
                                                                                                                                                                                                                                                                                                                                                                                                                         Score 643.2; DB 6
Pred. No. 5.2e-145
0; Mismatches 11
                                                                                                                                                                  /organism="Mus musculus"
                                                                                                                                                                                                                                      /db_xref="taxon:10090"
                                                                                              further details.
Location/Qualifiers
                                                                                                                                                                                        /mol_type="mRNA"
/strain="C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                           25.6%;
98.2%;
                                                                                                                                                                                                                                                                                                                                                     macrophage"
                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match 25.6
Best Local Similarity 98.2
Matches 659; Conservative
                                                                                                                                       1. .674
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CCACCATAAGG 672
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CACCANTAGGG 670
```

```
1. .666
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        664
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CANC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   662
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        199
                                                                                                                                                                                                                                                                                             source
                                                                                                                                                                                                                                                             FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  d
                                                                                                                                                                                                                                                                      ENGATORIA MERGAZOA: CONTGRATA IN ENTRACEDRATE INTELEGOSTOMI;

BUNEATYORI MERGAZOA: CONTGRATA IN ENTRACEDRATE INTELEGOSTOMI;

OAZZAKI, Y., FULNDO, M., SAILON R., SUZUKI, H., YAMBARA, I.,

NIKAJGO, I., OBACO, N., SAILON R., SUZUKI, H., YAMBARA, I.,

KIYOSAWA, H., YAGI, K., TOMATU, Y., HASEGAWA, Y., NOGAMI, A.,

SCHONDAON, C., GOJÓDOTI, T., BAIGATELII, R., HIILD, P., BULL, C.,

HUME, D. A., QUACKENDUSH, J. S., SCHTMI, L.M., KANADPIN, A., MATSUGA, H.,

BATALOV, S., BEISEL, K.W., BLAKE, J.A., BRACK, D., BTUSIC, V.,

CHOCHIST, C., CONDAIL, L.E., COUSINS, S., DAGAGATI, T.A.,

FLECCHET, C.F., FORTESE, A., FRAZET, K.S., GARGETLANG, T.,

RAWAJI, H., KAWASAWA, Y., KEGIZETSKI, R.M., KING, B.L., KONAGAYA, A.,

KUTCCHKIN, I. V., Lee, Y., Lenhard, B., LyONS, P.A., MAGLOCT, D.R.,

NUMBTA, L., MARCHIONNI, L., MCKENZIE, L., MIXIH, NAGASHIMA, T.,

RAVASI, T., REGA, D.J., REIGA, G., SECOL, M., SALMACHARA, K.,

SANGELIN, A., SCHNERAK, R., YONTIUS, J.U., QL, D., RAMACHARA, K.,

SANGELIN, A., SCHNERAK, Y., TAYLOR, M.S., TERSGABHMA, Y.,

VERTAGO, R., WAGNER, C., SECOL, M., SALMACHARA, K.,

SANGELIN, A., SCHNERAK, Y., TAYLOR, M.S., TEASGABH, R.D., TOMICA, M.,

WELLS, C., WILLMING, L.G., WYARBAW-BOTIS, A., YARAGARA, Y.,

YANG, L., YUAN, Z., ZAVOLAN, M., ZAN, Y., YARAGA, J., YARAGA, Y.,

WELLS, C., WILLMING, L.G., WYARBAW-BOTIS, A., YARAGASHA, Y.,

HAYAERUW, T., YARA, Z., YARAO, Y., YOSHINO, H., NAKAMURA, M., YARAWA, T., TAYLOR, M., YARAWA, T., KARAWA, T., KANGA, Y., YARAWA, T., YARAWA, T., YARAWA, T., YARAWA, T., YARAWA, T., YARAWA, T., YARAWA, T., YARAWA, T., YARAWA, T., YARAWA, T., YOSHINO, M., WALERSEON, ROGERS, J., BILLAR, A., HARAIZUME, W., YARAWA, T., YARAWA, T., WARNING, Y., WALEYSEON, R., MANGAYA, Y., YARAWA, T., WARNING, A., YARAWA, T., KARAWA, T., YARAWA, T., WARAWA, T., YARAWA, 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute of Physical and Chemical Research (RIKEN)

1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan Tel: 81-45-503-9222

Fax: 81-45-503-9226

Email: genome-resegescriken.jp, URL:http://genome.gsc.riken.jp/
Adachi,J., Aizawa,K., Akimura,T., Arakawa,T., Carninci,P.,
Rudda,S., Hashizume,W., Hayashida,K., Hirozane,T., Hori,F.,
Imotani,K., Ishi,Y., Itoh,M., Kagawa,I., Kawai,J., Kojima,Y.,
Kondo,S., Konno,H., Kvoja,S., Miyazaki,A., Murata,M., Nakamura,M.,
Nomura,K., Numazaki,R., Ohno,M., Ohsato,N., Saito,R., Sakazume,N.,
Sasaki,D., Sato,K., Shibata,K., Shiraki,T., Tagami,M.,
Takeda,Y., Waki,K., Watahiki,A., Muramatsu,M. and Hayashizaki,Y.
     EST 17-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sequencing pipeline with 384 multicapillary sequencer. Genome Res. 10 (11), 1757-171 (2000)
Computer-based methods for the mouse full-length cDNA encyclopedia: real-time sequence clustering for construction of a nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001) cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken
                                                                                                                                                                                                                                                             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Computational Analysis of Full-Length Mouse cDNAs Compared with Human Genome Sequences Mamm. Genome. 12, 673-677 (2001)
Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes. Genome Res. 10 (10), 1617-1630 (2000)
RIKEN integrated sequence analysis (RISA) system--384-format
BY747821
BY747821 RIKEN full-length enriched, NOD-derived CD11c +ve
dendritic cells Mus musculus CDNA clone F630011J05 5', mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Contact: Yoshihide Hayashizaki
                                                                                                                                                                                               Mus musculus (house mouse)
Mus musculus
                                                                                                                                             BY747821.1 GI:27176312
                                                                                           sequence.
                                                                                                                     BY747821
                                                                                                                                                                             EST
                                                                                                       ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                             DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JOURNAL
MEDLINE
PUBMED
COMMENT
                                                                                                                                                                                                                                                                                                                  REFERENCE
                                                                                                                                                                                                                                                                                                                                             AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE
```

```
Genetics
Wellcome
                                                                                                                                                                                                                                                                                                                                                                                                                                     /cell_type="NOD-derived CD11c +ve dendritic cells"
/clone lib="RIKEN full-length enriched, NOD-derived CD11c
+ve dendritic cells"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TCCAGGGGCTCTTTCTAAACTGAGAAGAAAGGAAAAGGAAGAAAGGCAGGAAAAAGGAA 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GAATGAATTCAACCAAATCGCCTGCATCCCACCACACAGAGAGGATGCTTCAAAAACT 181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Greetingaacregaaacarrarcaarcragrigiraritrirereraceaaceriga 421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ccredicarcaagriraaagaarrecreagacareeeeecreaccreerearrareaca 481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AGTCCCTGACCTTCTGGGATGCTGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTG 661
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61
Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CACAGGAAGAGCAGGAATTCCTTTTTCGCACAAAAACCTANAAGGAAAGAGTTTTTATATTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GACTGACAGACCAGGTGGTGGAGGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GACTGACAGACCAGGTGGTGGTGGGTCAGTGNGCATGGGTGGATGATGATGATCACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCCAAGTGCTCTCCTGGACGATAGCCGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TCACCAGATGTGTCGTAACATATGGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CACAGGAAGAGCAGGAATTCCTTTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GGTCTGTTAGTCTTGAACTTTTAAAAGAGGCCAAGGATTCACCATTCAAGACTCACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CCCAAGTGCTCTCCTGGACGATAGCCGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TCACCAGATGTGTCGTAACATATCGCAGCTCTCAAATTTCCGGGCCAGAACTTACAGCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATAGAAATATTAAGGAGCTTTCCTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GTCCTTTGAACTGGAAACATTATCAATCTAGTTGTTATTTTTTCTCTACGACAACCTTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCTGGTCATCAAGTTTAAAGAATTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGTCTGTTACTCTTGAACTTTTAAAAAGAGGCCAAGGATTCACCATTCAAGACTCACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ATAGAAATATTAAGGAGCTTTCCTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gapa
                                                     prepare mouse tissues.
Tissues were provided by Dr. John Todd (Dept. of Medical G Wellcome Trust Centre for Molecular Mechanisms in Disease W Trust/MRC building Addenbrookes Hospital Cambridge) whose sasistance we gratefully acknowledge.
Please visit our web site (http://genome.gsc.riken.go.jp) further details.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 666;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         25.3%; Score 637.8; DB 6; 98.3%; Pred. No. 1.1e-143; ive 0; Mismatches 10;
                                                                                                                                                                                                                                                                                                      musculus"
                                                                                                                                                                                                                                                                                                                                                                                  /db_xref="taxon:10090"
/clone="F630011J05"
                                                                                                                                                                                                                                           Location/Qualifiers
                                                                                                                                                                                                                                                                                                                             /mol_type="mRNA"
/strain="NOD"
                                                                                                                                                                                                                                                                                                    /organism="Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches 653; Conservative
```

BY749084 LOCUS

REFERENCE AUTHORS

```
N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             122
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             602
                                                                                                                                                                                                                                                                    source
                                                                                                                                                                                                                                         FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                               1. (bases 1 to 655)

Sokazaki, Y., Furuno, M., Saito, R., Suzuki, H., Yamanaka, I.,

Nikaido, I., Osato, N., Saito, R., Suzuki, H., Yamanaka, I.,

Kiyosawa, H., Yagi, K., Tomaru, Y., Hasegawa, Y., Nogami, A.,

Kiyosawa, H., Yagi, K., Tomaru, Y., Hasegawa, Y., Nogami, A.,

Schonbach, C., Golobori, T., Baldarelli, R., Hill, D.P., Bult, C.,

Hume, D. A., Quackenbush, J., Schrimi, L.M., Kanapin, A., Matsuda, H.,

Batalov, S., Beisel, K.W., Blake, J.A., Bradt, D., Brusic, V.,

Chothia, C., Corbani, L.E., Cousins, S., Dagami, T.A.,

Fletcher, C.F., Forrest, A., Frazer, K.S., Gaasterland, T.,

Gariboldi, M., Gissi, C., Godzik, A., Gough, J., Grimmond, S.,

Kurochkin, I.V., Lee, Y., Lendard, B., Lyons, P.A., Maglott, D.R.,

Numata, K., Okido, T., Perkeski, R.M., King, B.L., Konagaya, A.,

Ruschinoni, L., Macchionni, L., McKenie, L., Miki, H., Nagashima, T.,

Numata, K., Okido, T., Pevan, W.J., Pertea, G., Pestovsky, N.,

Sandellin, A., Schneider, C., Semple, C.A., Setou, M., Shinada, K.,

Sandellin, A., Schneider, C., Semple, C.A., Setou, M., Shinada, K.,

Sandellin, A., Schneider, C., Wundhaw-Boris, A., Yang, I.,

Yang, L., Yuan, Z., Zavolan, M., Zhu, Y., Zimmer, A., Carninci, P.,

Hayatsu, N., Hirozane-Kishikawa, T., Yanki, K., Kawai, J., Aizawa, K.,

Shinagawa, A., Yasunishi, A., Yoshino, M., Waterston, R., Lander, E.S.,

Analysis of the mouse transcriptome based on functional annotation

of 60,770 full-length cDNas
BY749084

BY749084 RIKEN full-length enriched, NOD-derived CD11c +ve dendritic cells Mus musculus cDNA clone F630224E05 5', mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Contact: Yoshihide Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN Genomic
Sciences Center(GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
Tel: 81-45-503-9226
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Email: genome-reseggec.riken.jp, URL:http://genome.gec.riken.jp/
Adachi,J., Aizawa,K., Akimura,T., Arakawa,T., Carninci,P.,
Atachi,J., Hashixume,W., Hayashida,K., Hirozane,T., Hori,F.,
Imotani,K., Ishii,Y., Itob,M., Kagawa,I., Kawai,J., Kojima,Y.,
Kondo,S., Konno,H., Koya,S., Miyazaki,A., Murata,M., Nakamura,M.,
Nomura,K., Numazaki,R., Ohno,M., Ohaato,N., Saito,R., Sakazume,N.,
Sano,H., Sasaki,D., Sato,K., Shibata,K., Shiraki,T., Tagami,M.,
Direct Submission
                                                                                                                                                                                                                                 Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus.
1 (bases 1 to 655)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Res.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Computational Analysis of Full-Length Mouse cDNAs Compared with Human Genome Sequences Mamm. Genome. 12, 673-677 (2001)

Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes. Genome Res. 10 (10), 1617-1630 (2000)

RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multicapillary sequencer. Genome Res 10 (11), 1757-1771 (2000)

Computer-based methods for the mouse full-length cDNA encyclopedia: real-time sequence clustering for construction of a
                                                                                                                                                                                   Mus musculus (house mouse)
                                                                                                                               BY749084.1 GI:27178286
                                                                                 sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              12466851
                                                                                                       BY749084
                                                                                                 ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                        DEFINITION
```

JOURNAL MEDLINE PUBMED

TITLE

```
/organism="Mus musculus"
/mol_type="mRNA"
/mol_type="mRNA"
/dol_type="texton:10090"
/clone="F630224E05"
/clone="F63024E05"
/clone="texton:10090"
/clone="texton:10090"
/clone="texton:10090"
/clone="texton:10090"
/clone="texton:10090"
/clone lib="RIKEN full-length enriched, NOD-derived CD11c
+ve dendritic cells"
nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001) CDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to
                                                                                                                               prepare mouse issues.
Tissues were provided by Dr. John Todd (Dept. of Medical Genetics Wellcome Trust Centre for Molecular Mechanisms in Disease Wellcome Trust/MRC building Addenbrookes Hospital Cambridge) whose assistence we gratefully acknowledge.
Please visit our web site (http://genome.gsc.riken.go.jp) for further details.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TCCAGGGGCTCTTTCTAAACTGAGAAGAAAGGAAAAGGAAGAAAAGGCAGGAAAAAGGAA 121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ccreercarcritaaagaarrecrcagacaregeeecrcaccreeresrraregaca 481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GICCITITGAACIGGAAACATTATCAATCTAGTTGTTATTTTTTTTTCTCTACGACAACCTTGA 421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GAATGAATTCAACCAAATCGCCTGCATCCCACCACACAGAGAGGAGGATGCTTCAAAAACT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CCCAAGTGCTCTCCTGGACGATAGCCGGGGCCTCCATCCTGTTTCTCAGTGCTTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TCACCAGATGTGTGGTAACATATCGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ATAGAAATATTAAAGGAGCTTTCCTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GACTGACAGACCAGGTGGTGGAGGGTCAGTGGCAATGGGAGGATGATACACTTTTCACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GGTCTGTTACTCTTGAACTTTTAAAAGAGGGCCAAGGATTCACCATTCAAGACTCACTT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CCCAAGTGCTCTCCTGGACGATAGCCGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCACCAGATGTGTGTAACATATCGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ATAGAAATATTAAGGAGCTTTCCTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CCTGGTCATCAAGTTTAAAGAATTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CACAGGAAGAGCAGGAATTCCTTTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CACAGGAAGAAGAAATTCCTTTTTCGCACAAAAACCTAAAAGGAAAAGAGTTTTATATTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AGTCCCTGACCTTCTGGGATGCTGGGGAGCCCAACAATATAGTTTTGGTGGAGGA 656
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 655;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indela
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 635.6; DB 6;
Pred. No. 3.7e-143;
0; Mismatches 5;
                                                                                                                                                                                                                                                                                                       Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 25.3%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match 25.3
Best Local Similarity 99.1
Matches 649; Conservative
```

```
Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         919
                                                    94
                                                                                              61
                                                                                                                                          136
                                                                                                                                                                                                                           196
                                                                                                                                                                                                                                                                     181
                                                                                                                                                                                                                                                                                                                                                    241
                                                                                                                                                                                                                                                                                                                                                                                              316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     436
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      496
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          556
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                601
                                                                                                                                                                                                                                                                                                            256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 14
BY743467
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AUTHORS
                                                  è
                                                                                       g
                                                                                                                                        ò
                                                                                                                                                                      셤
                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /lone lib="NIA Mouse 15K CDNA Clone Set"
/clone is among a rearrayed set of 15.47 Clones from 11 enbryo cDNA libraries (including preimplantation stage embryos from unfertilized egg to blastocyst, embryonic part of E7.5 embryos, extraembryonic part of E7.5 embryos, extraembryonic part of E7.5 embryos, extraembryonic part of E7.5 embryos, and B12.5 female mesonephros/gonad) and one newborn ovary cDNA library. Average insert size 1.5 kb. All source libraries are cloned unidirectionally with Oligo(dT)-Not primers. References include: (1) Genome-wide expression profilling of mid-gestation placenta and embryo using a 15,000 mouse developmental CDNA microarray, 2000, proc. Natl. Acad. Sci. U S A, 97: 9127-9132; (2) Large-scale cDNA analysis reveals phased gene expression patterns during preimplantation mouse development, 2000, Development, 127: 1737-1749; (3) Genome-wide mapping of unselected transcripts from extrembryonic tissue of 7.5-day mouse embryos reveals enrichment in the t-complex and under-representation on the X chromosome, 1998, Hum Mol Genet 7: 1967-1978:"
H3053D08-5 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone H3053D08 5', mRNA sequence.
BG080418
BG080418.2 GI:40014148
                                                                                                                                                                                                                                                                                                                                                                                                                                 On Jan 26, 2001 this sequence version replaced gi:12562986.
Other ESTS: H3053D08-3
Contact: George J. Kargul
Laboratory of Genetics
National Institute on Aging/National Institutes of Health
333 Cassell Drive, Suite 4000, Baltimore, MD 21224-6820, USA
Email: cdna@1gsun.grc.nia.nih.gov/cDNA/15k.html for details.
Visit http://lgsun.grc.nia.nih.gov/cDNA/15k.html for details.
Plate: H3053 row: D column: 08
Seq primer: -21M13 Reverse
High quality sequence stop: 644
                                                                                                                                                                                                   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 644)
                                                                                                                                                                                                                                             1 (bases 1 to 644)
Tranka, T.S., Jaradat, S.A., Lim, M.K., Kargul, G.J., Wang, X.,
Grahovac, M.J., Pantano, S., Sano, Y., Plao, Y., Nagaraja, R., Doi, H.,
Wood, W.H. III, Becker, K.G. and Ko, M.S. H.
Genome-wide expression profilling of mid-gestation placenta and
embryo using a 15,000 mouse developmental cDNA microarray
Proc. Natl. Acad. Sci. U.S.A. 97 (16), 9127-9132 (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /sex="Clones arrayed from a variety of cDNA libraries"
/dev_stage="Clones arrayed from a variety of cDNA
libraries"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      db_xref="niaEST:H3053D08-5"
db_xref="taxon:10090"
clone="H3053D08"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism="Mus musculus"
/mol_type="mRNA"
/strain="C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /lab_host="DH10B"
                                                                                                                                                         Mus musculus (house mouse)
Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1. .644
                                                                                                                                                                                                                                                                                                                                                                                                                      10922068
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bource
                                                DEFINITION
                                                                                                                                                                                 ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE
PUBMED
COMMENT
                                                                                                           VERSION
KEYWORDS
SOURCE
                                                                                              ACCESSION
                                                                                                                                                                                                                                                                     AUTHORS
                                                                                                                                                                                                                                               REFERENCE
                                                                                                                                                                                                                                                                                                                                                                          JOURNAL
        BG080418
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
                                                                                                                                                                                                                                                                                                                                TITLE
```

```
540
                                                                                                                                                                                                                                                                                                                                 375
                                                                                                                                                                                                                                                                                                                                                                                                                                   420
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       495
                                                     135
                                                                                       121 AAATCGCCTGCATCCCACCACACAGAGAGGATGCTTCAAAACTCCCAAGTGCTCTCC 180
                                                                                                                                                                                                                             regacearaccesesecricearecrearrereasesecrearreareaceasearerere 240
                                                                                                                                                                                                                                                             315
                                                                                                                                                                                                                                                                                 301 GAGCTTTCCTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGG 360
                                                                                                                                                                                                                                                                                                                                                                                                 435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       480
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         555
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           615
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           541 grácicadecicadecenarecerecaranamente en crimicada en confedente 600
                   9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BY743467 BIKEN full-length enriched, bone marrow macrophage Mus musculus cDNA clone 1830011F16 5', mRNA sequence.
GAACTITITAAAAAGAGGCCAAGGATTCACCATTCAAGACTCACTTTCCAGGGGCTCTTT
                                                                                                                                                                                                                                                                                                                                 GAGCTTTCCTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGG
                                                                                                                                                                                                                                                                                                                                                                                                                       TTAAAGAATTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACACAGGAAGAGCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GIGGIGGAGGGICAGIGGCAAIGGGAGGAIGAIAACACCIIICACAGAGICCCIGACCCIIC
                                                                                                                         AAATCGCCTGCATCCCACCACACAGAGAGAGGATGCTTCAAAAACTCCCAAGTGCTCTCC
                                                                                                                                                                                             TGGACGATAGCCGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATCACCAGATGTGTC
                                                                                                                                                                                                                                                               GTAACATATCGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAG
                                                                                                                                                                                                                                                                                                                                                                                                     AAACATTATCAATCTAGTTGTTATTTTTTCTCTACGACAACCTTGACCTGGTCATCAAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GAATTCCTTTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATATTGGACTGACAGACCAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TGGGATGCTGGGGGCCC-ACAATATAGTTTTGGTGGAGGACTGT 644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGGGATGCTGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BY743467.1 GI:27169524
```

Length 644;

16 GAACTTTTAAAAAGAGGCCCAAGGATTCACCATTCAAGACTCACTTTCCAGGGGCTCTTT 75

2 GGTCTGTTAGTCTTGAACTTTTAAAAGAGGCCAAGGATTCACCATTCAAGACTCACTT

```
Sandelin, A., Schneider, C., Semple, C.A., Setou, M., Shimada, K., Xakenaka, Y., Taylor, M.S., Teasdale, R.D., Tomita, M., Verardo, R., Wadner, C., Wahlested, C., Wang, Y., Watanabe, Y., Wallener, C., Wilming, L.G., Wynahaw-Boris, A., Yanagisawa, M., Yang, I., Yang, J., Zavolan, M., Zhu, Y., Zimmer, A., Carninci, P., Hayateu, N., Hirozane-Kishikawa, T., Konno, H., Nakamura, M., Sakazume, N., Sato, K., Shiraki, T., Waki, K., Kawai, J., Aizawa, K., Arakawa, T., Fukuda, S., Hara, A., Hashizume, W., Imorani, K., Ishii, Y., Itoh, M., Xasua, I., Miyazaki, A., Sakai, K., Sasaki, D., Shibata, K., Shinagawa, A., Yashino, M., Waterston, R., Lander, B.S., Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Computational Analysis of Full-Length Mouse cDNAs Compared with Human Genome Sequences Mamm. Genome, 12, 673-677 (2001)
Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes. Genome Res. 10 (10), 1617-1630 (2000)
RIKEN integrated sequence analysis (RISA) system--184-format sequencing pipeline with 34 multicapillary sequencer. Genome Res. 10 (11), 1757-1771 (2000)
Computer-based methods for the mouse full-length cDNA encyclopedia: real-time sequence clustering for construction of a nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001)
CDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center, and Genome Science Laboratory in RIKEN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-2 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan Tel: 81-45-503-9226
Fax: 81-45-503-9216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Email: genome-reseggsc.riken.jp, URL:http://genome.gsc.riken.jp/
Adachi,J., Aizwa,K., Akimura,T., Arakawa,T., Carninci,P.,
Rukuda,S., Hashiatume,W., Hayashida,K., Hirozane,T., Hori,F.,
Imorani,K., Ishii,Y., Itob,M., Kagawa,I., Kawai,J., Kojina,Y.,
Kondo,S., Konno,H., Koya,S., Miyazaki,A., Murata,M., Nakamura,M.,
Nomura,K., Numazaki,R., Ohno,M., Ohasto,N., Saito,R., Sakazume,N.,
Zano,H., Sasaki,D., Sato,K., Shibata,K., Shiraki,T., Tagami,M.,
Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Division of Experimental Animal Research in Riken contributed to prepare mouse tissues.

Tissues were provided by David A. Hume ( Depts. of Biochemistry and Microbiology/Parasitology Institute for Molecular Bioscience University of Queensland Brisbane, Q 4072 Australia ) whose assistance we gratefully acknowledge.

Please visit our web site (http://genome.gsc.riken.go.jp) for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /cell_type="macrophage"
/clone_lib="RIKEN full-length enriched, bone marrow
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            'tissue_type="bone marrow"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /mol_type="mRNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="1830011F16"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Contact: Yoshihide Hayashizaki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              further details.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            . 645
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2354683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    JOURNAL
MEDLINE
PUBMED
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                            TITLE
```

```
"I (bases 1 to 643)
Okazaki,Y., Furuno,M., Kasukawa,T., Adachi,J., Bono,H., Kondo,S.,
Nikaido,I., Osato,N., Saito,R., Suzuki,H., Yamanaka,I.,
Kyoawa,H., Yaqi,K., Tomaru,Y., Hasegawa,Y., Nogami,A.,
Schonbach,C., Gojobori,T., Baldarelli,R., Hill,D.P., Bult,C.,
Hume,D.A., Quackenbush,J., Schrini,L.M., Kanapin,A., Matsuda,H.,
Batalov,S., Belsel,K.W., Balake,J.A., Bradt,D., Brusic,V.,
Chothia,C., Corbani,L.E., Cousins,S., Dalla,E., Dragani,T.A.,
Fletcher,C.F., Forrest,A., Frazer,K.S., Gaasterland,T.,
Gariboldi,M., Gissi,C., Godzik,A., Gough,J., Grimmond, S.,
Kawaii,H., Kawasawa,Y., Kedzierski,R.M., King,B.L., Konagaya,A.,
Kurochkin,I.V., Lee,Y., Lenhard,B., Lyons,P.A., Maglott,D.R.,
Maltais,L., Marchionni,L., McKenzie,L., Miki,H., Nagashima,T.,
Numata,K., Okido,T., Pavan,W.J., Pertea,G., Pesole,G.,
Ravaai,T., Reed,J.C., Reed,D.J., Rend,J., Ring,B.Z., Ringwald,M.,
Sandelin,A., Schneider,C., Semple,C.A., Setou,M., Shimada,K.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             EST 17-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              481
                                                                                           121
                                                                                                                                                                       181
                                                                                                                                                                                                                                               181
                                                                                                                                                                                                                                                                                                                           241
                                                                                                                                                                                                                                                                                                                                                                                                   241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BY743813 RIKEN full-length enriched, bone marrow macrophage Musmusculus cDNA clone 1830018A02 5', mRNA sequence.
                                                           CCCAAGTGCTCTCCTGGACGATAGCCGGGGCCTCCATCCTGTTTCTCAGTGCTGTTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               242 TCACCAGATGTGTCGTAACATATCGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATAGAAATATTAAGGAGCTTTCCTGCTACAGTGAGGCATCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGGTTCAGG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      362 GTCCTTTGAACTGGAAACATTATCAATCTAGTTGTTATTTTTTTCTCTACGACAACCCTTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CCTGGTCATCAAGTTTAAAGAATTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              422 ccregrcarcaagrrraaagaarrgcrcagacargggggcrcaccrggrggrarcgaca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CACAGGAAGAGCAGGAATTCCTTTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  482 CACAGGAAGAGCAGCAATTCCTTTTTCGCACAAAACCTAAAAGGAAAGAGTTTTATTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GACTGACAGACCAGGTGGTGGAGGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAG
                                                                                                                                                                   182 CCCAAGTGCTCTCCTGGACGATAGCCGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       242 TCACCAGATGTGTCGTAACATATCGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ATAGAAATATTAAGGAGCTTTCCTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GTCCTTTGAACTGGAAACATTATCAATCTAGTTGTTATTTTTTTCTCTACGACAACCTTGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AGTCCCTGAGCTTCTGGGATGCTGGGGAGCCCAACA 637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  602 AGTCCCTGACCTTCTGGGATGCTGGGGAGCCCAACA 637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             643 bp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BY743813.1 GI:27170082
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mus musculus
               62
                                                                                                                                                                                                                                           122
                                                                                                                                                                                                                                                                                                                                                                                                   182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 15
BY743813
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
ઠે
                                                                       셤
                                                                                                                                                           ò
                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
```

24.8%; Score 625.4; DB 6; Length 645; 98.9%; Pred. No. 1.1e-140; ive 0; Mismatches 7; Indels 0

629; Conservative

Similarity

Query Match Best Local S

Matches

```
Computational Analysis of Full-Length Mouse cDNAs Compared with Human Genome Sequences Mamm. Genome. 12, 673-677 (2001)
Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for trapper selected cDNAs to prepare full-length cDNA libraries for trapper selected cDNAs to prepare sequence analysis (RISA) system--384-format sequencing pipeline with 384 multicapillary sequencer. Genome Res. 10 (11), 1757-1771 (2000)
Computer-based methods for the mouse full-length cDNA encyclopedia: real-time sequence clustering for construction of a nonredundant cDNA library was prepared and sequenced in Mouse Genome CDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), Yokohama Institute
Sciences Center (GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-22 Suchiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan Tel: 81-45-503-922
Fax: 81-45-503-922
Email: genome-res@gsc.riken.jp, URL:http://genome.gsc.riken.jp/
Adachi,J., Aizawa,K., Akimura,T., Arakawa,T., Carninci,P.,
Fukuda,S., Hashizume,W., Hayashida,K., Hirozane,T., Hori,F.,
Kondo,S., Konno,H., Yoya,S., Miyazaki,A., Murata,M., Nommra,K., Numazaki,R., Ohno,M., Ohsato,N., Saito,R., Sakazume,N.,
Sano,H., Sasaki,D., Sato,K., Shibata,K., Shiraki,T., Tagami,M.,
Takeda,Y., Waki,K., Watahiki,A., Muramatsu,M. and Hayashizaki,Y.
Verardo, N. Wagner, L. Wahlestedt, C., Wang, Y., Watenabe, Y., Wallestedt, C., Wallestedt, C., Watenabe, Y., Wallestedt, C., Wallestedt, C., Wallestedt, C., Wallestedt, C., Wallestedt, C., Wallestedt, C., Wallestedt, C., Wallestedt, C., Wallestedt, W., Zhu, Y., Zimer, A., Carninci, P., Savolan, M., Zhu, Y., Zimer, A., Carninci, P., Sakazume, N., Sato, K., Shiraki, T., Komo, H., Nakamura, M., Alzawa, K., Arakawa, T., Fukuda, S., Hara, A., Hashizume, W., Imctani, K., Ishii, Y., Itoh, M., Kagawa, I., Miyazaki, A., Sakai, K., Sasaki, D., Shibata, K., Rogers, J., Birney, E. and Hayashizaki, Y. Waterston, R., Lander, E.S., Analysis of the muose transcriptome based on functional annotation of 60,770 full-length, CDNs.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Trissues were provided by David A. Hume ( Depts. of Biochemistry and Microbiology/Parasitology Institute for Molecular Bioscience University of Queensland Brisbane, Q 4072 Australia ) whose assistance we gratefully acknowledge.
Please visit our web site (http://genome.gsc.riken.go.jp) for further details.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /cell_type="macrophage"
/clone_lib="RIKEN full-length enriched, bone marrow
macrophage"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 643;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 tch
al Similarity 98.6%; Pred. No. 3.4e-140;
627; Conservative 0; Mismatches 9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /tissue_type="bone marrow"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /db_xref="taxon:10090"
/clone="1830018A02"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Contact: Yoshihide Hayashizaki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /mol_type="mRNA"
/strain="C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          prepare mouse tissues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1. .643
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local
Matches 62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE
PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                       JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                                                                                                                                                                                                                   TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           COMMENT
```

```
421
                                                                                                                                                                                                                                                                                                                                                                                                                                                             541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         601
121
                                                                                                                      241
                                                                                                                                                   241
                                                                                                                                                                                 301
                                                                                                                                                                                                              301
                                                                                                                                                                                                                                             361
                                                                                                                                                                                                                                                                          361
                                                                                                                                                                                                                                                                                                        421
                                                                                                                                                                                                                                                                                                                                                                   481
                                                                                                                                                                                                                                                                                                                                                                                                 481
                                                                                                                                                                                                                                                                                                                                                                                                                               541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       601
                 TCCAGGGGCTCTTTCTAAACTGAGAAGGAAAGGAAAAGGAAAAGGAAAAAGGAAAAAAGGAA
 TCCAGGGGCTCTTTCTAAACTGAGAAGAAGGAAAAGGAAGAAAAGGCAGGAAAAAGGAA
                                                          GAATGAATTCAACCAAATCGCCTGCATCCCACCACACAGAGAGGATGCTTCAAAACT
                                                                            CCCAAGTGCTCTCCTGGACGATAGCCGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCA
                                                                                                                                                                                                          TCACCAGATGTGTCGTAACATATCGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCAC
                                                                                                                                                                                                                                                                                                                                      Greentricaaericaarcarrarcaarcraciricirarririricreraccaaccarcarda
                                                                                                                                                                                                                                                                                                                                                                                                  ccrestcarcaagrrraaagaarrectcagacarcegegecreaccrestrarceaca
                                                                                                                                                                                                                                                                                                                                                                                                                                                   482 CACAGGAAGAGCAGGAATTCCTTTTTCGCACANAACCTANAAGGAAAGAGTTTTATATTTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      542 GACTGACAGACCAGGTGGTGGAGGGTCAGTGNGCATGGTGGATGATACACCTTTCACAG
                                                                                                                        CCCAAGTGCTCTCCTGGACGATAGCCGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCA
                                                                                                                                                                                   TCACCAGATGTGTCGTAACATATCGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCAC
                                                                                                                                                                                                                                             ATAGAAATATTAAGGAGCTTTCCTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCT
                                                                                                                                                                                                                                                                           ATAGAAATATTAAGGAGCTTTCCTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCT
                                                                                                                                                                                                                                                                                                         GTCCTTTGAACTGGAAACATTATCAATCTAGTTGTTATTTTTTTCTCTACGACAACCTTGA
                                                                                                                                                                                                                                                                                                                                                                      CCTGGTCATCAAGTTTAAAGAATTGCTCAGACATGGGGGGCTCACCTGGTGGTTATCGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                CACAGGAAGAGCAGGAATTCCTTTTTCGCACAAAATCTAAAAAGGAAAGAATTTTATATTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GACTGACAGACCAGGTGGTGGAGGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AGTCCCTGACCTTCTGGGATGCTGGGGAGCCCAACA 637
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AGTCCCTGAGCTTCTGGGATGCTGGGGAGCCCAACA 637
                              62
                                                                                          122
                                                                                                                        182
                                                                                                                                                    182
                                                                                                                                                                                   242
                                                                                                                                                                                                               242
                                                                                                                                                                                                                                             302
                                                                                                                                                                                                                                                                           302
                                                                                                                                                                                                                                                                                                         362
                                                                                                                                                                                                                                                                                                                                      362
                                                                                                                                                                                                                                                                                                                                                                      422
                                                                                                                                                                                                                                                                                                                                                                                                  422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    602
62
                                                            122
                                                                                                                                                                                                                                                                                                                                                                                                                                482
                       요
                                                          à
                                                                                     g
                                                                                                                   ò
                                                                                                                                                 g
                                                                                                                                                                                 ò
                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                         à
                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                à
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ద
```

completed: June 9, 2005, 09:38:50 Job time : 8079 secs Search

> ô 61 61

Gaps

.. 0

Indels

<u>.</u> م

GGTCTGTTAGTCTTGAAACTTTTAAAAAAGGGGCCAAGGATTCACCATTCAAGACTCACTT 2 GGTCTGTTACTCTTGAACTTTTAAAAAGAGGGCCAAGGATTCACCATTCAAGACTCACTT

ò 요

```
US-09-489-847-119
US-09-111-470-7
US-09-222-575-29
US-09-389-681-29
US-09-433-829-29
US-09-433-8268-29
US-09-433-8268-29
US-09-433-8268-29
US-09-834-759-29
US-09-834-759-29
US-09-814-759-29
US-09-814-759-29
US-09-814-759-29
US-09-814-759-29
US-09-81-440-22
US-09-81-440-22
US-09-81-440-22
US-09-81-435-11
US-09-851-435-11
US-09-851-435-11
US-09-851-435-11
US-09-851-435-11
US-09-851-435-11
US-09-851-435-11
US-09-81-11-470-9
US-09-111-470-9
US-09-111-470-9
US-09-111-470-9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-09-016-434-1186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-09-535-521-10
US-09-535-521-12
                                                                                                                                                                                                                                                                                                                June 9, 2005, 13:17:52; Search time 185 Seconds (without alignments) 1892.774 Million cell updates/sec
                                                                                                                                                                                               ......IPCFYSMPWICEMPEISPLD 214
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd
                                                            nucleic search, using frame_plus_p2n model
                                                                                                                                                                                                                                                                                                                                                          of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                            1202784 seqs, 818138359 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                            Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                         Xgapop 10.0 , Xgapext
Ygapop 10.0 , Ygapext
Fgapop 6.0 , Fgapext
Delop 6.0 , Delext
                                                                                                                                                                                           1 MNSTKSPASHHTERGCFKNS
                                                                                                                                                                                                                                                                                                                                                                                              Minimum DB seq length: 0 Maximum DB seq length: 20000000000
                                                                                                                                                        US-10-812-620-2
1179
                                                                                                                                                                                                                             BLOSUM62
```

Title: Perfect score:

Sequence:

OM protein

Run on:

Scoring table:

Total number

Searched:

sequence 7, Appli Sequence 29, Appli Sequence 29, Appli Sequence 29, Appli Sequence 29, Appli Sequence 29, Appli Sequence 29, Appli Sequence 29, Appli Sequence 29, Appli Sequence 29, Appli Sequence 29, Appli Sequence 20, Appli Sequence 698, Appli Sequence 10, Appli Sequence 1, Appli Sequence 1, Appli Sequence 1, Appli Sequence 1, Appli Sequence 1, Appli Sequence 1, Appli Sequence 1, Appli Sequence 1, Appli Sequence 1, Appli Sequence 1, Appli Sequence 1, Appli Sequence 1, Appli Sequence 1, Appli Sequence 1, Appli Sequence 1, Appli Sequence 1, Appli Sequence 1, Appli Sequence 1, Appli Sequence 1, Appli

ALIGNMENTS

Sequence 4091, Ap Sequence 1186, Ap Sequence 10, Appl Sequence 12, Appl

```
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic TITLE OF INVENTION: Acids Encoding the Same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILE REFERENCE: 10466-14
CURRENT APPLICATION NUMBER: US/09/907,794A
CURRENT FILING DATE: 2001-07-17
PRIOR APPLICATION NUMBER: PCT/US00/04414
                                                                                                                                                                           Sequence 376, Application US/09907794A
Patent No. 635468
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Godowski, Paul J.
Grimaldi, Christopher
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Stewart, Timothy A.
Tumas, Daniel
Williams, P. Mickey
Wood, William, I.
                                                                                                                                                                                                                                                                                                                                                                             Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gurney, Austin L.
Hillan, Kenneth, J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pan, James
Paoni, Nicholas F.
Roy, Margaret Ann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gerritsen, Mary E. Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gerber, Hanspeter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                Desnoyers, Luc
Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                             Fong, Sherman
Gao, Wei-Qiang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                             APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
Command line parameters:
-MODBL=frame+ p2n.model.DBV=xlh
-Q=/Cgn2_1/USPTO_spool/US1081260/runat_07062005_124338_3273/app_query.fasta_1.391
-Q=/Cgn2_1/USPTO_spool/US10812620/runat_07062005_124338_3273/app_query.fasta_1.391
-Q=/Cgn2_1/USPTO_spool/US10812620 -SUPFIX=p2n.rni -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -STRAT=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCALIGN=200 -THR SCORES=pct -THR MAX=100 -THR MINN=0 -ALIGN=15
-USFR=US10812620.@CGN 1 1.177 @runat_07062005_124338_3273 -NCPU=6 -ICPU=3
-NOME-LOCAL -MARGEQUERY -NGG SCORES=0 -WALT -DSPBLOCK=100 -LONGLOG
-DBV TIMEOUT=120 -WARN TIMEOUT=30 -THRADS=1 -XGARPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELDPXT=7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 3, Appli
51, Appl
20, Appl
```

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

/cgn2_6/ptCdata/1/ina/SA_COMB.seq:*
/cgn2_6/ptCdata/1/ina/SB_COMB.seq:*
/cgn2_6/ptCdata/1/ina/6A_COMB.seq:*
/cgn2_6/ptCdata/1/ina/6B_COMB.seq:*
/cgn2_6/ptCdata/1/ina/FCTUS_COMB.seq:*
/cgn2_6/ptCdata/1/ina/FCTUS_COMB.seq:*

Issued_Patents_NA:*

Database :

Description

DB

Length

Ouery Match

Result õ Sequence

Sequence Sequence Sequence Sequence

Sequence Sequence

US-09-907-794A-376
US-09-905-125A-376
US-09-905-75A-376
US-09-903-603A-376
US-09-903-603A-376
US-09-909-064-376
US-09-905-381A-376
US-09-905-381A-376
US-09-905-381A-376
US-09-905-381A-376
US-09-905-440-3

392.5 359 336

Sequence Sequence Sequence Sequence

642

~

```
ThrGlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrlle 139
                                                                                                                                                                                                        GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
                                                                                                                                                                                                                                                                                               180 AlaThrileArgAspSerSerAsnSerArgLy8AsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                           GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr
                                                                                                                                                                                                                                  and Transmembrane Polypeptides and Nucleic
                                                                                                                                                                                                                                                                                                                                                                                        200 SerMetProTrplleCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE OF INVENTION: Secreted and Transmembrane ITILE OF INVENTION: Acids Encoding the Same FILE REFERENCE: 10466-11.

FILE REFERENCE: 10466-11.

CURRENT APPLICATION NUMBER: US/09/905,125A

CURRENT FILING DATE: 2001-07-12

PRIOR FILING DATE: 2000-02-22

PRIOR PILING DATE: 1999-07-07

PRIOR PILING DATE: 1999-07-07

PRIOR PILING DATE: 1999-07-26

PRIOR FILING DATE: 1999-07-26

PRIOR PILING DATE: 1999-07-26

PRIOR PILING DATE: 1999-07-26

PRIOR PILING DATE: 1999-07-26

PRIOR PILING DATE: 1999-09-08

PRIOR PILING DATE: 1999-09-08

PRIOR PILING DATE: 1999-09-08

PRIOR PILING DATE: 1999-09-08

PRIOR PILING DATE: 1999-09-08

PRIOR APPLICATION NUMBER: PCT/US99/2094

PRIOR PILING DATE: 1999-09-15

PRIOR PILING DATE: 1999-09-15

PRIOR PILING DATE: 1999-09-15

PRIOR PILING DATE: 1999-09-15

PRIOR FILING DATE: 1999-09-15

PRIOR FILING DATE: 1999-09-15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-09-905-125A-376
; Sequence 376, Application US/09905125A
; Patent No. 6664376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Godowski, Paul J.
Grimaldi, Christopher J
Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Williams, P. Mickey Wood, William, I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Kljavin, Ivar J.
Mather, Jennie P.
Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Botstein, David
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PATEUR NO. GENERAL INFORMATION:
APPLICANT: Generach, Inc.
APPLICANT: Ashkenazi, Avi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Desnoyers, Luc
Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Fong, Sherman
Gao, Wei-Qiang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Stewart, Timol
Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Goddard, A.
                       120
                                                                                                                 140
                                                                                                                                                             523
                                                                                                                                                                                                        160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT
                                                             g
                                                                                                              ò
                                                                                                                                                      g
                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                         В
                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          163 CAANGITCITAIGGACIGITGCIGGGATCCCCAICCIAITITCICAGIGCCIGITICAIC 222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            223 ACCAGATGTGTGTGACATTTCGCATCTTTCAAACCTGTGATGAGAAAAGTTTCAGCTA 282
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  283 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT 342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           100 ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAsp 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            41 ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeu 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 60 HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21 GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2097
241
243
243
243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-812-620-2 (1-214) x US-09-907-794A-376 (1-997)
           PRIOR FILING DATE: 1999-07-07
PRIOR PELING DATE: 1999-07-07
PRIOR PELING DATE: 1999-07-07
PRIOR PELING DATE: 1999-07-07
PRIOR PLING DATE: 1999-07-28
PRIOR PLING DATE: 1999-07-28
PRIOR PLING DATE: 1999-07-28
PRIOR PLING DATE: 1999-09-08-08
PRIOR PLING DATE: 1999-09-08
PRIOR PELING DATE: 1999-09-08
PRIOR PELING DATE: 1999-09-13
PRIOR PELING DATE: 1999-09-13
PRIOR PELING DATE: 1999-09-15
PRIOR PELING DATE: 1999-09-15
PRIOR PELING DATE: 1999-09-15
PRIOR PELING DATE: 1999-09-15
PRIOR PELING DATE: 1999-09-15
PRIOR PELING DATE: 1999-1-129
PRIOR PELING DATE: 1999-1-1-29
PRIOR PELING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/2854
PRIOR PELING DATE: 1999-1-20
PRIOR APPLICATION NUMBER: PCT/US99/28564
PRIOR PELING DATE: 1999-1-20
PRIOR PELING DATE: 1999-1-20
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR PELING DATE: 1999-1-2-02
PRIOR PELING DATE: 1999-1-2-02
PRIOR PELING DATE: 1999-12-02
PRIOR PELING DATE: 1999-12-02
PRIOR PELING DATE: 1999-12-02
PRIOR PELING DATE: 1999-12-06
PRIOR PELING DATE: 1999-12-06
PRIOR PELING DATE: 1999-12-06
PRIOR PELING DATE: 1999-12-06
PRIOR PELING DATE: 1999-12-06
PRIOR PELING DATE: 1999-12-06
PRIOR PELING DATE: 1999-12-06
PRIOR PELING DATE: 1999-12-06
PRIOR PELING DATE: 1999-12-06
PRIOR PELING DATE: 1999-12-06
PRIOR PELING DATE: 1999-12-06
PRIOR PELING DATE: 1999-12-06
PRIOR PELING DATE: 1999-12-06
PRIOR PELING DATE: 1999-12-06
PRIOR PELING DATE: 1999-12-06
PRIOR PELING DATE: 1999-12-06
PRIOR PELING DATE: 1999-12-06
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7.27e-88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  774.00
79.07%
66.51%
65.65%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORGANISM: Homo Sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Percent Similarity:
Best Local Similarity:
Query Match:
FILING DATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-907-794A-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQ ID NO 376
LENGTH: 997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    80
```

ò g ઠે 셤 ò qq ઠ g ò d ઠ

```
APPLICANT: Pan, James
APPLICANT: Pan, James
APPLICANT: Pan, James
APPLICANT: Roy, Margaret Ann
APPLICANT: Scwart. Timothy A.
APPLICANT: Though Daniel
APPLICANT: Though Daniel
APPLICANT: Though Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Williams, P. Mickey
APPLICANT: Williams, P. Mickey
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REPREEMENT Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Acids Encoding the Same
CURRENT APPLICATION NUMBER: US/09/902,775A
CURRENT PILING DATE: 2000-02-22
PRIOR APPLICATION NUMBER: US 60/145,698
PRIOR PILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: US 60/146,222
PRIOR APPLICATION NUMBER: PCT/US99/20944
PRIOR FILING DATE: 1999-09-13
PRIOR FILING DATE: 1999-09-13
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
                                                                SerMetProTrplleCysGluMetProGluIleSerProLeuAsp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FILING DATE: 1999-12-20
APPLICATION NUMBER: PCT/US99/30999
FILING DATE: 1999-12-20
APPLICATION NUMBER: PCT/US00/00219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICATION NUMBER: PCT/US99/23089
FILING DATE: 1999-10-05
APPLICATION NUMBER: PCT/US99/28214
FILING DATE: 1999-11-29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRIOR FILING DATE: 1999-12-16
PRIOR APPLICATION NUMBER: PCT/US99/30911
PRIOR FILING DATE: 1999-12-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: PCT/US99/28313
FILING DATE: 1999-11-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICATION NUMBER: PCT/US99/28564
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICATION NUMBER: PCT/US99/28565
                                                                                                                                                                              Sequence 376, Application US/09902775A Patent No. 6686451 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Goddard, A.
Godowski, Paul J.
Grimaldi, Christopher
                                                                                                                                                                                                                                                      APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Besnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Hillan, Kenneth, J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gurney, Austin L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                     Fong, Sherman
Gao, Wei-Qiang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Рап, Јашев
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LING DATE:
                                                                                                                                                               -09-902-775A-376
                                      200
                                                                             a
                                      ∂
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              283 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT 342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAsp 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ThrGlnGluGluGluGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  522
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             523 GGACTGTCAGACCAGGTTGTCGAGGGTCAGTGGCTAATGGGTGGACGCCACCTTTGACA 582
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             643 GCCACCATGAGAGACTCTTCAAACCCAAGGCAAAAATTGGAATGATGTAACCTGTTTCCTC 702
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              223 ACCAGATGTGTTGTGACATTTCGCATCTTTCAAACCTGTGATGAGAAAAAGTTTCAGCTA 282
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 MetasnSerThrLysSerProAlaSerHisHisHisThrGluargGlyCysPheLysAsnSer 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               60 HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys 79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeu 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                997
143
27
2
2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length:
Matches:
Conservative:
Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-812-620-2 (1-214) x US-09-905-125A-376 (1-997)
PRIOR FILING DATE: 1999-10-05
PRIOR APPLICATION NUMBER: PCT/US99/28214
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR FILING DATE: 1999-11-30
PRIOR FILING DATE: 1999-12-02
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30095
PRIOR FILING DATE: 1999-12-02
PRIOR APPLICATION NUMBER: PCT/US99/30091
PRIOR FILING DATE: 1999-12-10
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 2000-01-05
NUMBER: PCT/US00/00219
PRIOR FILING DATE: 2000-01-05
NUMBER OF SEQ ID NOS: 423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           7.27e-88
774.00
79.07%
66.51%
65.65%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM: Homo Sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Best Local Similarity:
Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-905-125A-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  463
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          . No. .
```

셤

ሯ

셤 8 ద ઠે

ò

ò පු ò 유 8 g ò ሯ

```
Fong, Sherman
Gao, Wei-Qiang
                                                                                                                                                                                                                             Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TYPE: DNA
ORGANISM: Homo Sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 945-004-906-60-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Alignment Scores:
              APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                            APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         283 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT 342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               120 ThrGlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      140 GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         160 GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              343 TGTCCATTGAACTGGGAATATTTCAATCCAGCTGCTACTTCTTTTCTACTGACACCATT 402
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 523 GGACTGTCAGACCAGGTTGTCGAGGGTCAGTGGCAATGGGTGGACGGCACACCTTTGACA 582
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     180 AlaThrIleArgAspSerSerAanSerArgLysAanTrpAanAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    40
                                                                                                                                                                                                                                                                                                                                                                    41 ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                                                                                                                                                                                                                                            60 HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys 79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrThrLeu 99
                                                                                                                                                                                                                                                                                                              GinValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle
                                                                                                                                                                                                                                                     1 MetAsnSerThrLysSerProAlaSerHisHhrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             200 SerMetProTrplleCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             997
1143
27
2
2
2
                                                                                                                           Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                             US-10-812-620-2 (1-214) x US-09-902-775A-376 (1-997)
                                                                                                                                                                                                   Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 4
US-09-906-700-376
Sequence 376, Application US/09906700
Patent No. 6723535
GENERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Botsein, David
APPLICANT: Bestein, David
APPLICANT: Bestein, David
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Ferrara, Napoleone
                                                                                                                           7.27e-88
774.00
79.07%
66.51%
65.65%
PRIOR FILING DATE: 2000-01-05
          NUMBER OF SEQ ID NOS: 423
SEQ ID NO 376
LENGTH: 997
                                                      ; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-902-775A-376
                                                                                                                                                     Percent Similarity:
Best Local Similarity:
                                                                                                               Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    80
                                                                                                                                                                                                                                                                                                              21
                                                                                                                                                                                   Query Match:
DB:
                                                                                                                              Pred. No.:
                                                                                                                                                                                                                                                        õ
                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                             유
                                                                                                                                                                                                                                                                                                                                                                                                                   ે
                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       쉽
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      쉽
```

ò g ઠે a ò g g

ેં

요

õ

g

8

8 6

ď

ò a ઠે 셤

8

```
APPLICANT: Vindians, P. Mickey
APPLICANT: Willians, P. Mickey
APPLICANT: Willians, P. Mickey
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
CURRENT APPLICATION NUMBER: US/09/903,603A
CURRENT APPLICATION NUMBER: D010-011
PRIOR APPLICATION NUMBER: PCT/011
PRIOR APPLICATION NUMBER: PCT/01304
PRIOR APPLICATION NUMBER: US 60/14,698
PRIOR APPLICATION NUMBER: US 60/14,698
PRIOR APPLICATION NUMBER: US 60/14,698
PRIOR APPLICATION NUMBER: PCT/01899/20594
PRIOR PLING DATE: 1999-07-28
PRIOR FILING DATE: 1999-07-28
PRIOR PLING DATE: 1999-07-28
PRIOR PLING DATE: 1999-07-28
PRIOR PLING DATE: 1999-07-28
PRIOR PLING DATE: 1999-07-28
PRIOR PLING DATE: 1999-07-28
PRIOR PLING DATE: 1999-07-28
PRIOR PLING DATE: 1999-01-13
PRIOR PLING DATE: 1999-01-13
PRIOR PLING DATE: 1999-11-20
PRIOR PLING DATE: 1999-11-20
PRIOR APPLICATION NUMBER: PCT/US99/28313
PRIOR PLING DATE: 1999-11-20
PRIOR APPLICATION NUMBER: PCT/US99/2009
PRIOR APPLICATION NUMBER: PCT/US99/2009
PRIOR PLING DATE: 1999-11-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DATE: 1999-12-20
PRIOR PLING DA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             41 ThrargCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys 79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21 GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MetAsnSerThrLysSerProAlaSerHisHhsGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-812-620-2 (1-214) x US-09-903-603A-376 (1-997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     7.27e-88
774.00
79.07%
66.51%
65.65%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORGANISM: Homo Sapien
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-09-903-603A-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    음. 강
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                       342
                                                                                                                                                                                                                                                                                                                                                                                                                ThrGlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              180 AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                            GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheile 40
                                              20
                                                                                                                                                                                                                 ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                                                                                                                       79
                                                                                                                                                                                                                                                                                                                                                                                        CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeu 99
                                                                                                                                                                                                                                                                                                 60 HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys
                                        MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                           283 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            200 SerMetProTrplleCysGluMetProGluileSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-812-620-2 (1-214) x US-09-906-700-376 (1-997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 376, Application US/09903603A
Fatent No. 6767995
GEBERAL INFORMATION:
APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Betefein, David
APPLICANT: Betefein, David
APPLICANT: Eaton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ferrara, Napoleone
Filvaroff, Ellen
Fong, Sherman
Gao, Wei-Qiang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Roy, Margaret Ann
Stewart, Timothy A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gao, Wei-Qiang
Gerber, Hanspeter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-09-903-603A-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                            21
                                                                                                                                                                                                                   41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 120
                                                                                                                                                                                                                                                                                                                                                                                        80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                583
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  643
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        APPLICANT
```

```
21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                      GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
283 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT 342
                                                                                         ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAsp 119
                                                                                                                                                 120 ThrGlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                                    GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                                                                                                                                                                                       AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                  СувРгоLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeu 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT: Roy, Margaret Ann
APPLICANT: Stewart, Timethy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
                                                                                                           TGTCCATTGAACTGGGAATATTTTCAATCCAGCTGCTACTTCTTTTTTTACACACCATT
                                                                                                                                                                                                                               200 SerMetProTrplleCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRIOR APPLICATION NUMBER: PCT/USO0/04414
PRIOR FILING DATE: 2000-02-22
PRIOR FILING DATE: 1999-07-07
PRIOR FILING DATE: 1999-07-07
PRIOR FILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CURRENT APPLICATION NUMBER: US/09/904,920A
CURRENT FILING DATE: 2001-07-13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 376, Application US/09904920A Patent No. 6806352 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Godowski, Paul J.
Grimaldi, Christopher
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           APPLICANT: Genentech, Inc.
APPLICANT: Abkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Betstein, David
APPLICANT: Betstein, Luc
APPLICANT: Eston, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Forg, Sherman
APPLICANT: Gao, Wel-Qlang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerber, Hanspeter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gurney, Austin L.
Hillan, Kenneth, J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-09-904-920A-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                         100
                                                                                                                                                                                                                                                                                                                                   180
                             80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                            343
                                                                                                                                                                                                              140
                                                                                                                                                                                                                                                                         160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT
                                                         g
                                                                                       ò
                                                                                                              요
                                                                                                                                                 ð
                                                                                                                                                                           셤
                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                    a
                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                 δ
                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                         임
                            ò
```

```
283 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT 342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ThrGlnGluGluGluBheLeuPheArgThrLysProLysArgLysGluPheTyrle 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CysProleuAsnTrpLysHisTyrGlnSerCysTyrPhePheSerThrThrThrLeu 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        41 ThrargCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100 ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValVallleAsp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     163 CAAATGTTCTTATGGACTGTTGCTGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      60 HisArgAsnlleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  997
143
243
207
207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length:
Matches:
Conservative:
Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-812-620-2 (1-214) x US-09-904-920A-376 (1-997)
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR PLLING DATE: 1999-09-18
PRIOR PLLING DATE: 1999-09-13
PRIOR PLLING DATE: 1999-09-13
PRIOR PLLING DATE: 1999-09-15
PRIOR PLLING DATE: 1999-09-15
PRIOR PLLING DATE: 1999-09-15
PRIOR PLLING DATE: 1999-10-05
PRIOR PLLING DATE: 1999-10-05
PRIOR PLLING DATE: 1999-10-05
PRIOR PLLING DATE: 1999-11-29
PRIOR PLLING DATE: 1999-11-29
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
PRIOR PLLING DATE: 1999-12-02
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             774.00
79.07%
66.51%
65.65%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUMBER OF SEQ ID NOS: 423
SEQ ID NO 376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-904-920A-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Best Local Similarity:
Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Alignment Scores:
```

```
ORGANISM: Homo Sapien
US-09-909-064-376
                                                                                                                                                                                                                                                                                                                                                                   Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-905-381A-376
                                                                                                                                                                                                                                                                                                               Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      140
                                                                                                                                                                                                                                         TYPE: DNA
                                                                                                                                                                                                                                                                                                                                                                                                         Query Match:
                                                                                                                                                                                                                                                                                                                                  . No .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               요~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               APPLICANT: Tumas, Daniel
APPLICANT: Tumas, Daniel
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Williams, P. Mickey
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William, I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: 10466-14
CURRENT PILING DATE: 2001-07-18
PRIOR APPLICATION NUMBER: US 60/141, 048
PRIOR FILING DATE: 1999-07-07
PRIOR APPLICATION NUMBER: PCT/US99/2059
PRIOR FILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-26
PRIOR PILING DATE: 1999-07-26
PRIOR FILING DATE: 1999-07-13
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-13
PRIOR FILING DATE: 1999-09-13
PRIOR FILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR FILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-09-15
PRIOR PILING DATE: 1999-11-29
PRIOR PILING DATE: 1999-11-29
PRIOR PILING DATE: 1999-11-29
PRIOR PILING DATE: 1999-11-29
                                                                                                        180 AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                             GGACTGTCAGACCAGGTTGTCGAGGGTCAGTGGCAATGGGTGGACGCCACACCTTTGACA 582
                                GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys
                                                        200 SerMetProTrpileCysGluMetProGluileSerProLeuAsp 214
                                                                                                                                                                                                                    703 AATTATTTCGGATTTGTGAAATGGTAGGAATAAATCCTTTGAAC 747
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                R FILING DATE: 1999-09-15

R APPLICATION NUMBER: PCT/US99/21089

R FILING DATE: 1999-10-05

R APPLICATION NUMBER: PCT/US99/28214

R FILING DATE: 1999-11-29

R APPLICATION NUMBER: PCT/US99/28313

R FILING DATE: 1999-11-30

R APPLICATION NUMBER: PCT/US99/28564

R FILING DATE: 1999-11-30
                                                                                                                                                                                                                                                                                           Sequence 376, Application US/09909064
Patent No. 6818449
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Godowski, Paul J.
Godowski, Paul J.
Grimaldi, Christopher J
Gurney, Austin L.
Hillan, Kenneth, J.
Kljavin, Ivar J.
Rahavin, Ivar J.
Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                                                                                                                                                                         Ferrara, Napoleone
Filvaroff, Ellen
Fong, Sherman
Gao, Wei-Qiang
Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                              APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
APPLICANT: Beton, Dan L.
APPLICANT: Baton, Dan L.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Goddard, A.
                                                                                                                                                                                                                                                                        US-09-909-064-376
                                    160
                                                                                                                                            643
                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PPLICANT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT
                                                              a
                                                                                                      ò
                                                                                                                                      용
                                                                                                                                                                                                               셤
                                  ò
                                                                                                                                                                                ò
```

```
139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            343 TGTCCATTGAACTGGGAATATTTTCAATCCAGCTGCTACTTCTTTTCTACTGACACCATT 402
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100 ThrTrpSerSerSerLeuLy8AsnCysSerAspMetGlyAlaHisLeuValValIleAsp 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               522
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      642
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      180 AlaThrIleArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              643 GCCACCATGAGAGTCTTCAAACCCAAGGCAAATTGGAATGATGTAACCTGTTTCCTC 702
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 66
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21 GinValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheile
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CAAATGTTCTTATGGACTGTTGCTGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      41 ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnBro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ThrGlnGluGluGluGluPheLeuPheArgThrLysProLysArgLysGluPheTyrlle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         583 AAGTCTCTGAGCTTCTGGGATGTAGGGAGCCCAACAACATAGCTACCCTGGAGGACTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           60 HisargasnileLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                160 GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    *** AATTATTTCGGATTTGTGAAATGGTAGGAATAAATCCTTTGAAC 747
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           200 SerMetProTrplleCysGluMetProGlulleSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                997
143
27
43
                                                                                                                                                                                                                                                                                                                                                                                              Length:
Matches:
Conservative:
Mismatches:
Indels:
Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-812-620-2 (1-214) x US-09-909-064-376 (1-997)
PRIOR APPLICATION NUMBER: PCT/US99/28565
PRIOR FILING DATE: 1999-12-02
PRIOR PILING DATE: 1999-12-05
PRIOR FILING DATE: 1999-12-16
PRIOR FILING DATE: 1999-12-16
PRIOR FILING DATE: 1999-12-20
PRIOR PPLICATION NUMBER: PCT/US99/30999
PRIOR PPLICATION NUMBER: PCT/US99/30999
PRIOR PILING DATE: 1999-12-20
PRIOR FILING DATE: 1999-12-20
PRIOR FILING DATE: 2000-01-05
SEQ ID NO 376
LENGTH: 997
                                                                                                                                                                                                                                                                                                                                                                                       7.27e-88
774.00
79.07$
66.51$
65.65$
```

```
Alignment Scores:
Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                            Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              APPLICANT
                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  QQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                APPLICANT: Scewart, Innochy A.
APPLICANT: Scewart, Innochy A.
APPLICANT: Williams, Daniel
APPLICANT: Williams, Daniel
APPLICANT: Williams, Daniel
APPLICANT: Wood, William, I.
ITILE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
ITILE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
ITILE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
ITILE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
ITILE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
ITILE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
ITILE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
ITILE OF INVENTION: Secreted and Transmembrane Polypeptides
RRIOR APPLICATION NUMBER: US 60/145,598
RRIOR PELING DATE: 1999-77-56
RRIOR PELING DATE: 1999-77-56
RRIOR PELING DATE: 1999-00-13
RRIOR PELING DATE: 1999-00-14
RRIOR PELING DATE: 1999-00-15
RRIOR PELING DATE: 1999-00-15
RRIOR PELING DATE: 1999-10-16
RRIOR PELING DATE: 1999-10-16
RRIOR PELING DATE: 1999-10-16
RRIOR PELING DATE: 1999-10-16
RRIOR PELING DATE: 1999-10-16
RRIOR PELING DATE: 1999-10-16
RRIOR PELING DATE: 1999-10-16
RRIOR PELING DATE: 1999-10-16
RRIOR PELING DATE: 1999-10-16
RRIOR PELING DATE: 1999-10-16
RRIOR PELING DATE: 1999-10-16
RRIOR PELING DATE: 1999-10-16
RRIOR PELING DATE: 1999-10-16
RRIOR PELING DATE: 1999-10-16
RRIOR PELING DATE: 1999-10-16
RRIOR APPLICATION NUMBER: PCT/US99/30099
RRIOR APPLICATION NUMBER: PCT/US99/30099
RRIOR APPLICATION NUMBER: PCT/US99/30099
RRIOR APPLICATION NUMBER: PCT/US99/30099
RRIOR APPLICATION NUMBER: PCT/US99/30099
RRIOR APPLICATION NUMBER: PCT/US99/30099
RRIOR APPLICATION NUMBER: PCT/US99/30099
RRIOR APPLICATION NUMBER: PCT/US99/30099
RRIOR APPLICATION NUMBER: PCT/US99/30099
RRIOR APPLICATION NUMBER: PCT/US99/30099
RRIOR APPLICATION NUMBER: PCT/US99/30099
RRIOR APPLICATION NUMBER: PCT/US99/30099
RRIOR APPLICATION NUMBER: PCT/US99/30099
RRIOR APPLICATION NUMBER: PCT/US99/30099
RRIOR APPLICATION NUMBER: PCT/US99/30099
RRIOR APPLICATION NUMB
Sequence 376, Application US/09905381A Patent No. 6818746 GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                    Godowski, Paul J.
Grimaldi, Christopher J.
Gurney, Austin L.
Hillan, Kenneth, J.
Kljavin, Ivar J.
Mather, Jennie P.
                                                                                                                                                                                         Ferrara, Napoleone
Filvaroff, Ellen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                                                                                                   Gerber, Hanspeter
Gerritsen, Mary E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Roy, Margaret Ann
                                                                      APPLICANT: Genentech, Inc.
APPLICANT: Ashkenai, Avi
APPLICANT: Botsein, David
APPLICANT: Besnoyers, Luc
APPLICANT: Eaton, Dan L.
                                                                                                                                                                                                                                          , Sherman
Wei-Qiang
                                                                                                                                                                                                                                                                                                                                 Goddard, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; TYPE: DNA
; ORGANISM: Homo Sapien
US-09-905-381A-376
                                                                                                                                                                                                                                            Fong,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          APPLICANT
```

```
522
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              582
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  642
                                                                                                                                                                                                                                                   ||||:::
|163 CAAATGTTCTTATGGACTGTTGCTGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATC 222
                                                                                                                                                                                                                                                                                                                                                                                               283 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT 342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValVallleAsp 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ThrGlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyr1le 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         223 ACCAGATGTGTTGTGACATTTCGCATCTTTCAACCTGTGATGAGAAAAGTTTCAGCTA 282
                                                                                                                                                                                                                                40
                                                                                                                                                                                                                                                                                                    ThrargCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                                                                                                                                                                                          60 HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys 79
                                                                                                                                                                                                                                                                                                                                                                                                                                                CysProleuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrThrLeu 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                523 GGACTGTCAGACCAGGTTGTCGAGGGTCAGTGGCAATGGGTGGACGGCACACCCTTTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GlnValLeuSerTrpThrlleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle
                                                                                                                                                        1 MetAsnSerThrLysSerProAlaSerHisHisHisThrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             200 SerMetProTrplleCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length:
Matches:
Conservative:
Mismatches:
                                                                                                                         US-10-812-620-2 (1-214) x US-09-905-381A-376 (1-997)
                                                                     Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 376, Application US/09906618
Patent No. 6828146
GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ferrara, Napoleone
Filvaroff, Ellen
7.27e-88
774.00
79.07%
66.51%
65.65%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gerritsen, Mary E.
Goddard, A.
Godowski, Paul J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Fong, Sherman
Gao, Wei-Qiang
Gerber, Hanspeter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      APPLICANT: Genentech, Inc.
APPLICANT: Ashkenazi, Avi
APPLICANT: Botstein, David
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Desnoyers, Luc
Eaton, Dan L.
                                  Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-09-906-618-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                21
                                                                                                                                                                                                                                                                                                    41
                                                                                                                                                                                                                                                                                                                                                                                                                                                80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         180
```

```
UNIQUE DENDRITIC CELL-ASSOCIATED C-TYPE
LECTINS, DECTIN-1 AND DECTIN-2; COMPOSITIONS AND USES
THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 522
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                582
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            642
                                                                                                                                                                                                                                                                                           342
                                                                                                                                                                                                                                                                                                                                                                                               100 ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAsp 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 140 GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           180 AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                53
                                                                                                                                                                                                                               79
                                                                                                                                                                                                                                                                                                                                                              9
60 HisArgAsnileLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys
                                                                                                                                                                                                                                                                                                                                                              CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          41 ThrargCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro
                                                                                                                                                                                                                                                                                           283 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  120 ThrGlnGluGluGluGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                160 GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               200 SerMetProTrpileCysGluMetProGluileSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
COMPUTER: IBM PC compatible
COMPUTER: IBM PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/772,440
FILING DATE: CONCURRENTLY HEREWITH
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Parker, David L.
REGISTRATION NUMBER: 32,165
REPERENCE/POCKET NUMBER: 32,165
REPERENCE/POCKET NUMBER: UXXD:493
TELECOMMUNICATION INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE OF INVENTION: UNIQUE DENDRITIC CITILE OF INVENTION: LECTINS, DECTIN-1 TITLE OF INVENTION: THEREOF NUMBER OF SEQUENCES: 42 CORRESPONDENCE ADDRESS: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: ADDRESSES: AD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-08-772-440-3
; Sequence 3, Application US/08772440
; Patent No. 6046158
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GENERAL INFORMATION:
APPLICANT: Ariizumi, Kiyoshi
APPLICANT: Takashima, Akira
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TELEPHONE: 512/418-3000
TELEFAX: 512/474-7577
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMPUTER READABLE FORM:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CITY: Houston STATE: Texas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COUNTRY:
                                        163
                                                                                                                                                                                                                                                                                                                                                           80
                                                                                                                                                      원
                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                 a
                                                                                                                                                                                                                                                                                                                                                           à
                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           용
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      용
                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                    APPLICANT: STEWART, 11MC-117 A.,
APPLICANT: Thumas, Daniel
APPLICANT: Thumas, Daniel
APPLICANT: William, P. Mickey
APPLICANT: William, P. Mickey
APPLICANT: William, P. Mickey
APPLICANT: William, P. Mickey
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
GURRENT APPLICANTON: Secreted and Transmembrane Polypeptides and Nucleic
GURRENT APPLICANTON: Secreted and Transmembrane Polypeptides and Nucleic
GURRENT FILIAG DATE: 2001-07-16
FRIOR PELICANTON NUMBER: US/09/00414
PRIOR PELICANTON NUMBER: US 60/145,698
PRIOR PELICANTON NUMBER: US 60/146,222
PRIOR PELICANTON NUMBER: PC7/0899/2054
PRIOR PELICANTON NUMBER: PC7/0899/2054
PRIOR PELICANTON NUMBER: PC7/0899/2054
PRIOR PELICANTON NUMBER: PC7/0899/2054
PRIOR PELICANTON NUMBER: PC7/0899/2054
PRIOR PELICANTON NUMBER: PC7/0899/2054
PRIOR PELICANTON NUMBER: PC7/0899/2069
PRIOR PELICANTON NUMBER: PC7/0899/2081
PRIOR PELICANTON NUMBER: PC7/0899/2081
PRIOR PELICANTON NUMBER: PC7/0899/2081
PRIOR PELICANTON NUMBER: PC7/0899/2081
PRIOR PELICANTON NUMBER: PC7/0899/2081
PRIOR PELICANTON NUMBER: PC7/0899/2081
PRIOR PELICANTON NUMBER: PC7/0899/2081
PRIOR PELICANTON NUMBER: PC7/0899/2085
PRIOR PELICANTON NUMBER: PC7/0899/2081
PRIOR PELICANTON NUMBER: PC7/0899/2099
PRIOR PELICANTON NUMBER: PC7/0899/2099
PRIOR PELICANTON NUMBER: PC7/0899/2099
PRIOR PELICANTON NUMBER: PC7/0899/2099
PRIOR PELICANTON NUMBER: PC7/0899/2099
PRIOR PELICANTON NUMBER: PC7/0899/2099
PRIOR PELICANTON NUMBER: PC7/0899/2099
PRIOR PELICANTON NUMBER: PC7/0899/2099
PRIOR PELICANTON NUMBER: PC7/0899/2099
PRIOR PELICANTON NUMBER: PC7/0899/2099
PRIOR PELICANTON NUMBER: PC7/0899/2099
PRIOR PELICANTON NUMBER: PC7/0899/2099
PRIOR PELICANTON NUMBER: PC7/0899/2099
PRIOR PELICANTON NUMBER: PC7/0899/2099
PRIOR PELICANTON NUMBER: PC7/0899/2099
PRIOR PELICANTON NUMBER: PC7/0899/2099
PRIOR PELICANTON NUMBER: PC7/0899/2099
PRIOR PELICANTON NUMBER: PC7/0899/2099
PRIOR PELICANTON NUMBER: PC7/0899/2099
PRIOR PELICANTON NUMBER: PC7/0899/2099
PRIOR PELICANTON NUMBER: PC7/0899/2099
PRIOR PELICANTON NUMBER: PC7/0899
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 MetabnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21 GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         997
1143
27
2
2
2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-812-620-2 (1-214) x US-09-906-618-376 (1-997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps:
Grimaldi, Christopher
Gurney, Austin L.
Hillan, Kenneth, J.
                                                                                             Kljavin, Ivar J.
Mather, Jennie P.
Pan, James
Paoni, Nicholas F.
                                                                                                                                                                                                                     Roy, Margaret Ann
Stewart, Timothy A.
Tumas, Daniel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             27e-88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 774.00
79.078
66.518
65.658
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-906-618-376
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TYPE: DNA ORGANISM:
                                                                                                                                                         APPLICANT:
APPLICANT:
APPLICANT:
APPLICANT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
```

윤 ઠ

ò

```
ઠ
                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            원
                                                                                                                                                                                                                                                                                                       619
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                673
                                                                                                                                                                                                                                                             200 TGGTCAGCTGCTGTGATTTCCATGTTACTCTTGAGTACCTGTTTCATTGCGAGCTGTGTG 259
                                                                                                                                                                                                                                                                                                                                                         100 ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAsp 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ThrGlnGluGluGluGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         180 AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       44
                                                                                                                                                                                                                                                                                       ValThrTyrArg-----SerSerGlnIleSerGlpGlnAsnLeuGlnProHisArgAsn 62
                                                                                                                                                                                                                                                                                                                                                                                           CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeu 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                             440 TTCTGGACCACCAGTGAGCAGAACTGTGTTCAGATGGGGGCTCATCTGGTGGTGATCAAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 500 ACTGAAGCGGAGCAGAATTTCATCACCCAGCAGCTGAATGAGTCACTTTCTTACTTCCTG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     620 CAAAATGTCAGGTTCTGGCACCCCCATGAACCCAAT-----CTTCCAGAAGGGGTGT
                                                                                                                                                                                                                                   TrpThrileAlaGlyAlaSerileLeuPheLeuSerGlyCysPheileThrArgCysVal
                                                                                                                                                                                                                                                                                                                                         63 IleLysGluLeuSerCysTyrSerGlu-----AlaSerGlySerValLysAsnCys
                                                                                                                 1227
80
33
71
3
                                                                                                                             Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 51, Application US/09489847
Patent No. 6476195
GENERAL INFORMATION:
APPLICANT: ROSEN et al
TITLE REFERENCE: PZ031P1
CURRENT FILING DATE: 2000-01-24
EARLIER APPLICATION NUMBER: DCT/US99/17130
EARLIER APPLICATION NUMBER: PCT/US99/17130
EARLIER APPLICATION NUMBER: 60/094,657
EARLIER FILING DATE: 1998-07-30
EARLIER FILING DATE: 1998-07-30
EARLIER FILING DATE: 1998-07-30
EARLIER FILING DATE: 1998-07-30
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         734 AAACACAATTCAATATGTGAAATGAAGATT 766
                                                                                                                                                                                                           US-10-812-620-2 (1-214) x US-08-772-440-3 (1-1227)
                                                                                                                    Length:
<u>ب</u>
         SEQUENCE CHARACTERISTICS:
LENGTH: 1227 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
                                                                                                                             392.50
59.16%
41.88%
33.29%
INFORMATION FOR SEQ ID NO:
                                                                                                                                    Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                                                                                                     Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US-09-489-847-51
                                                                          US-08-772-440-3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       160
                                                                                                                                                                                                                                                                                                                                                                                           80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    140
                                                                                                                                                                                                                                                                                        45
                                                                                                                    Pred. No.:
                                                                                                                                                                                                                                    ઠે
                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                       ઠે
                                                                                                                                                                                                                                                                                                           엄
                                                                                                                                                                                                                                                                                                                                       δ
                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                   ઠે
                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   유
```

```
165 GCAAGTTGTTTGGTGACTCATCACACTTTTCACGCTGTAAGAGAGGGCACAGGAGTGCAC 224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Phe Phe SerThr Thr Leu Thr Trp Ser Ser Ser Leu Lys Agn Cys Ser Asp Met Gly 112
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       113 AlaHisLeuValValIleAspThrGlnGluGluGlnGluPheLeuPheArgThrLysPro 132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LysargLysGluPheTyrlleGlyLeuThraspGlnValValGluGlyGlnTrpGlnTrp 152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Val-AspAspThrProPhe-ThrGluSerLeuSerPheTrpAspAlaGlyGluProAsnA 172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      enllevalLeuValGluAspCysAlaThrIleArgAspSerSerAsnSerArgLysAsnT 192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   || ::: ::::::::||| 585 ACT--CTCAGGGAGAAAACTGTGTTGTTCTT---GTTTATAACCAAGATAAATGGGCCT 639
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           105 caścrearaccrrcegrrariecreracrrrrcarcrracrrcicegrercrerrarr 164
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GTGGGACCAGACGCCATTTAACCCACGCCAGAGTATTCTGGCATAAGAATGAACCCGACA 584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        41 ThrArgCysValValThrTyr-----ArgSerSerGlnIleSerGly---Gln 55
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         225 AAGTTAGAGCACCATGCAAAGCTCAAATGCATCAAAGAGAAATCAGAACTGAAAAGTGCT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  73 SerGlySerValLysAsnCysCysProLeuAsnTrpLysHisTyrGlnSerSerCysTyr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GlnValLeuSerTrpThrileAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              56 AsnLeuGlnProHis-----ArgAsnIleLysGluLeuSerCysTyrSerGluAla
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       rpAsnAsplleProCysPheTyrSerMetProTrpIleCysGluMetPro 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     UNIQUE DENDRITIC CELL-ASSOCIATED C-TYPE
                                                                                                                                                                                                                                                                                                                                                     2076
78
38
71
12
                                                                                                                                                                                                                                                                                                                                                     Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-812-620-2 (1-214) x US-09-489-847-51 (1-2076)
EARLIER FILING DATE: 1998-08-05
EARLIER APPLICATION NUMBER: 60/096,319
EARLIER FILING DATE: 1998-08-12
EARLIER PILING DATE: 1998-08-06
EARLIER FILING DATE: 1998-08-06
EARLIER FILING DATE: 1998-08-06
EARLIER FILING DATE: 1998-08-06
SARUER FILING DATE: 1998-08-06
SOFTWARE: PARCHIN VOS: 376
SOFTWARE: PARCHIN VOY: 2.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 20, Application US/08772440
Patent No. 6046158
GENERAL INFORMATION:
APPLICANT: Arrizumi, Kiyoshi
APPLICANT: Takashima, Akira
TITLE OF INVENTION: UNIQUE DENDRI
                                                                                                                                                                                                                                                                                                                                                       8.116-35
359.00
58.59%
39.39%
                                                                                                                                                                                                                                             TYPE: DNA
CORGANISM: Homo sapiens
US-09-489-847-51
                                                                                                                                                                                                                                                                                                                                                                                                Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                                                                                                                                                                                                                           LENGTH: 2076
                                                                                                                                                                                                                                                                                                                                     Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-08-772-440-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       63
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  345
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          465
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     153
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        172
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              192
                                                                                                                                                                                                                                                                                                                                                       Pred. No.:
```

344

92

```
1 MetasnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer 20
                                                                                                                                                                                                                                                      APPLICANT: Ravel, Jodile
APPLICANT: Ravel, Odile
APPLICANT: Ravel, Odile
APPLICANT: Bates, Elizabeth E.M.
APPLICANT: Saeland, Sem
APPLICANT: Saeland, Sem
APPLICANT: Lebecque, Serge J.E.
TITLE OF INVENTION: Related Reagents
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: DAAX Research Institute
STREET: 901 California Avenue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1104
72
35
101
9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC Compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/111,470
FILING DATE: 08-JUL-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-10-812-620-2 (1-214) x US-09-111-470-1 (1-1104)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FILING DATE: 08-UUL-1998
CLASSIPICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 60/053,080
FILING DATE: 09-UUL-1997
ATTORNEY/AGENT INFORMATION:
NAME: Ching, Edwin P.
REGISTRATION NUMBER: 34,090
REFERENCE/DOCKET NUMBER: SF0695
TELECOMMUNICATION:
TELEPHONE: (650/852-9196
                                                                                                                                                                                  Sequence 1, Application US/09111470; Patent No. 6277959; GENERAL INFORMATION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             5.09e-31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LENGTH: 1104 base pairs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TELEFAX: (650)496-1200
INFORMATION FOR SEQ ID NO:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                325.50
49.31%
33.18%
27.61%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ZIP: 94304-1104
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy
                                                               208 ProGluile 210
                                                                                       :::|||
487 AAGAAGATT 495
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: nucleic acid
STRANDEDNESS: sing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CITY: Palo Alto
STATE: California
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MOLECULE TYPE: CDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                linea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; NAME/KEY:
; LOCATION:
US-09-111-470-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Alignment Scores:
Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TOPOLOGY:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     core:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8
                                                             ò
                                                                                                   셤
LECTINS, DECTIN-1 AND DECTIN-2; COMPOSITIONS AND USES THEREOF
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     133 GGCTCCAGCTACCTCATTTCTACCAAGAGAAACTTCTGGAGCACCAGTGAGCAGAAC 192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  313 GGCAAATGGCAATGGATCGATGATAATACTCCTTTCAGTCAAAATGTCAGGTTCTGGCACCCC 372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CysSerAspMetGlyAlaHisLeuValValIleAspThrGlnGluGluGluGluPheLeu 127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   193 TGTGTTCAGATGGGGGCTCATCTGGTGATCAATACTGAAGCGGAGCAGAATTTCATC 252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             128 PheArgThrLysProLysArgLysGluPheTyrIleGlyLeuThrAspGlnValValGlu 147
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            148 GlyGlnTrpGlnTrpValAspAspThrProPheThrGluSerLeuSerPheTrpAspAla 167
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            168 GlyGluProAsnAsnIleValLeuValGluAspCysAlaThrileArgAspSerSerAsn 187
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            88 GlnSerSerCysTyrPhePheSerThrThrLeuThrTrpSerSerSerLeuLysAsn 107
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   373 CATGAACCCAAT-----CTTCCAGAAGAGCGGTGTGTTTCAATAGTTTACTGGAATCCT 426
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           188 SerArgLysAsnTrpAsnAspIleProCysPheTyrSerMetProTrpIleCysGluMet 207
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    13 CAGCCCAGTAGAAGACTATAATGAACTTCACATACCATTCCAGTCTCACCTGCTTCAGT 72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Glu------AlaSerGlySerValLysAsnCysCysProLeuAsnTrpLysHisTyr 87
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ------LeuSerCysTyrSer 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            501
67
29
112
3
                                                                                                                                                                                                 COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/72,440
FILING DATE: CONCURRENTLY HEREWITH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-812-620-2 (1-214) x US-08-772-440-20 (1-501)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GlnProHisArgAsnIleLysGlu------
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Gaps:
                                      NUMBER OF SEQUENCES: 42
CORRESPONDENCE ADDRESS:
ALHOLD WHITE & Durkee
STREET: P.O. BOX 4433
                                                                                                                                                                                                                                                                                                                                                                                                                                                         UTXD: 493
                                                                                                                                                                                                                                                                                                                                             FILING DATE: CONCURRENTLY HERE
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: PATKEY, DAVIG L.
REGISTRATION NUMBER: 32,165
REFERENCE/DOCKET NUMBER: UTXD:
TELECOMMUNICATION INFORMATION:
TELEPHONE: 512/418-3000
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             336.00
58.90%
41.10%
28.50%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LENGTH: 501 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
FITLE OF INVENTION:
                                                                                                                      CITY: Houston
STATE: Texas
COUNTRY: USA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      STRANDEDNESS
                                                                                                                                                                                  ZIP: 77210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-08-772-440-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match:
```

셤

ठे

a ò

ò

ઠે 셤 셤

ઠે 셤 δ ద ò δ

셤

ò

8 8

g ઠે 음 장

```
302 ATCAACACCCTCTTCTGCAGCTTCCAAGGAGGACTGCCCCTCTCAAAAGTAATACC 361
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SerThrThrThrLeuThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHis 114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LeuValValIleAspThrGlnGluGluGluGluBheLeuPheArgThrLysProLysArg 134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       722 TCTGCTTATTTTGTGGGGCTCTCAGAAGGTCAGAAGGTCAGCGACATTGGCAATGGGTTGAT 781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      155 AspThrProPheThrGluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleVal 174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LeuValGluAspCysAlaThrIleArg---AspSerSerAsnSerArgLysAsnTrpAsn 193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       836 cccaargagcgcrgcgrrgrgcraarrrrrcgraarcaccaaaagarggggcrggarr
                                                                                                                                                                                                                                                                                                                                               362 GGATTCCCCCAAGCTGCTTGTGCCTCACTGATATTTTTCCTGCTATTGGCAATCTCA 421
                                                                                                                                                                                                                                                                                                                                                                                                                     482 ACAAAAGAGCTGGTTCATACAACAİTGGAGİĞTGTGAAAAAAAATATGCCCGTGGAAGAG 541
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ::: :::||||||||| |||||||||| seagectigatectatian | |||:::|||||||||| 601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LysGluPheTyrIleGlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAsp 154
                                                                                                                                                                                                                                                                                                                                                                                               38 CysphelleThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGlnAsnLeu 57
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  --- AlaSerGly 74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SerValLysAsnCysCysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePhe
                                                                                                                                                                                                                     1 MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AspileProCysPheTyrSerMetProTrpileCysGluMetProGluile 210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeu---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GlnProHisArgAsnIleLysGluLeuSerCysTyrSerGlu----
                      1104
72
35
101
9
                                        Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            PAPLICATION OF THE APPLICATION OF THE APPLICATION OF THE APPLICATION NUMBER: US/09/489,847 CURRENT FILING DATE: 2000-01-24 EARLIER PILING DATE: 1999-07-29 EARLIER FILING DATE: 1999-07-29 EARLIER FILING DATE: 1999-07-29 EARLIER FILING DATE: 1999-07-29 EARLIER FILING DATE: 1999-08-05 EARLIER PILING DATE: 1999-08-05 EARLIER PILING DATE: 1999-08-05 EARLIER PILING DATE: 1999-08-05 EARLIER FILING DATE: 1990-08-05 EARLIER FILING DATE: 1990-08-05 EARLIER FILING DATE: 1990-08-05 EARLIER FILING DATE: 1990-08-05 EARLIER FILING DATE: 1990-08-05 EARLIER FILING DATE: 1990-08-12 EARLIER PLING DATE: 1990-08-12
                                                                                                                                                                         US-10-812-620-2 (1-214) x US-09-862-802A-1 (1-1104)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-09-489-847-119
; Sequence 119, Application US/09489847
: Patent No. 6476195
; GENERAL INFORMATION:
                        5.09e-31
                                             325.50
49.31%
33.18%
27.61%
                                                               Percent Similarity:
Best Local Similarity:
  Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  58
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      135
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              175
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         75
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         662
                                                                                                            Query Match:
                        Pred. No.:
                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                           Ωp
                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                              a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-09-802-802A-1
US-09-802-802A-1
Sequence 1. Application US/09862802A
Facent No. 6756478
GENERAL INFORMATION:
Facent No. 6756478
GENERAL INFORMATION:
Facent No. 6756478
GENERAL INFORMATION:
Facent No. 6756478
FAPPLICANT: Ravel, Odile
APPLICANT: Bates, Elizabeth Ester Mary
APPLICANT: Ford, John
Ford, John
Ford, John
Ford, John
Ford, Semind, Sem
FILE REFERENCE: Sended Mammalian Membrane Protein Genes; Related Reagents
FILE REFERENCE: 2001-05-22
CURRENT APPLICATION NUMBER: US/09/862,802A
CURRENT FILING DATE: 1997-07-09
FRIOR FILING DATE: 1998-07-08
FRIOR FILING DATE: 1998-07-08
NUMBER OF SEQ ID NOS: 13
SOSTWARE: PatentIn version 3.1
                                                                                                                                                                                                                     SerThrThrThrLeuThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHis 114
                                                                                                                                                                                                                                                                                                                                                                            ||||||||
TCTACTGAATCAGCATCTTGGCAAGACGGGGGAGGACTGTGCTAGAATGGAGGCTCAC 661
                                                                                                                                                                                                                                                                                                                                                                                                                                          LeuValValileAspThrGlnGluGluGlnGluPheLeuPheArgThrLysProLysArg 134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                135 LysGluPheTyrIleGlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAsp 154
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    122 TCTGCTTATTTTGTGGGGCTCTCAGATCCAGAGGTCAGCGACATTGGCAATGGGTTGAT 781
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 155 AspThrProPheThrGluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleVal 174
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             175 LeuValGluAspCysAlaThrIleArg---AspSerSerAsnSerArgLysAsnTrpAsn 193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     362 GGATTCCCCAAGCTGCTTTGTGCCTCACTGTTGATATTTTTCCTGCTATTGGCAATCTCA 421
                                                                                                                              422 TICTTTATTGCTTTTTGTCATTTTCAAAAATATTCTCAGCTTCTTGAAAAAAAGACT 481
                                                                                                                                                                                                                                                                                           SerValLysAsnCysCysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePhe 94
                                                                                                                                                                         58 GlnProHisArgAsnIleLysGluLeuSerCysTyrSerGlu-----AlaSerGly 74
                                                                                   38 CysPheileThrArgCysValValThrTyrArgSerSerGinIleSerGlyGlnAsnLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         194 AspileProCysPheTyrSerMetProTrpileCysGluMetProGluile 210
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21 GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      OTHER INFORMATION: mammalian nucleic acid and protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | FEATURE:
| NAME/KEY: CDS
| LOCATION: (242)...(952)
| OTHER INFORMATION:
| US-09-862-802A-1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TYPE: DNA
ORGANISM: Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQ ID NO 1
LENGTH: 1104
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-09-862-802A-1
                                                                                                                                                                                                                                                                75
                                                                                                                                                                                                                                                                                                                                                 95
                                                                                                                                                                                                                                                                                                                                                                                               602
                                                                                                                                                                                                                                                                                                                                                                                                                                          115
```

8 8

셤 ò 셤 ð 셤 õ 셤 δ g

```
92 yr-PhePheSerThrThrThrThrTrpSerSerSerLeuLys-AsnCysSerAspMe 111
                                                                                                                                                                                                                                                                                                                                                                                                                                                           tGlyAlaHisLeuValValIleAspThrGlnGluGluGluPheLeuPheArgThrLy 131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       465 GGATAGACGGCTTTCCTATTCCTTGGACTTAGAGATGAGAAAGGTCAGTGGGG 524
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         151 nTrpVal-AspAspThrProPhe-ThrGluSerLeuSerPheTrpAspAlaGlyGluPro 170
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      171 AsnAsnIleValLeuValGluAspCysAlaThrIleArgAspSerSerAsnSerArgLys 190
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      131 sProLysArgLysGluPheTyrIleGlyLeuThrAspGlnValValGluGlyGlnTrpGl 151
                                                                                                                                                                                                                                                                                                                |||:::||||||::
|65 GCAAGTTGTTTGGTGACTCATCACACTTTTCACGCTGTAAGAGAGGAGGAGTGCAC 224
                                                                                                                                                                                                                                                   21 GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle 40
                                                                                                                                                                                                                                                                                                   41 ThrArgCysValValThrTyr-----ArgSerSerGlnIleSerGly---Gln 55
                                                                                                                                                                                                                                                                                                                                                 56 AsnieuGlnProHis-----ArgAsnileLysGluLeuSerCysTyrSerGlu-Al 72
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    191 AsnTrpAsnAsplleProCysPheTyrSerMetProTrpIleCysGluMetPro 208
                                                                                                                                           2059
80
35
72
16
                                                                                                                                          Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                            US-10-812-620-2 (1-214) x US-09-489-847-119 (1-2059)
EARLIER FILING DATE: 1998-08-06
BARLIER APPLICATION WUMBER: 60/095,455
EARLIER FILING DATE: 1998-08-06
NUMBER OF SEQ ID NOS: 376
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 119
LENGTH: 2059
                                                                                                                                          5.33e-29
313.00
56.93%
39.60%
                                                                                 TYPE: DNA
ORGANISM: Homo sapiens
                                                                                                                                                      Score:
Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                                                                                               ; ORGANISM: Hom
US-09-489-847-119
                                                                                                                                Alignment Scores:
Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  405
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              640
                                                                                                                                                                                                                                                                        음
                                                                                                                                                                                                                                                                                                                                                                                                                                    8 6 6 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8 6 8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      상
임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                        Š
                                                                                                                                                                                                                                                                                                                                                                  8 & 8
```

Search completed: June 9, 2005, 16:23:34 Job time : 194 secs

THIS PAGE BLANK (USPTO)

AY363175

AX000715 Homo sapi AX000715 Homo sapi AX000715 Homo sapi BD172643 Secreted BD173181 Secreted BD173181 Secreted BD173500 Secreted BD173500 Secreted BD17554 Secretory AR410914 Sequence AR56717 Sequence AX375956 Sequence AX375956 Sequence AX375956 Sequence AX375956 Sequence AX375956 Sequence AX375956 Sequence AX37786 Mas muscu AX377483 Sequence AX109882 Rattus no AX377484 Homo sapi BC032313 Homo sapi BC032313 Homo sapi BC032313 Homo sapi BC032313 Homo sapi BC032313 Homo sapi BC032312 Mus muscu AX155225 Sequence AX35746 Homo sapi BC032312 Mus muscu AX155225 Sequence BC05526 Hom muscu

AR473298
AR527284
AR527284
AX356317
AX359795
BD075683
AX59499
CQ414662
CQ717831
AC109882

AR439278

AC124563 AX357483 AY339882 AX704767

07

```
Manmatis Junieria; Kodenita; Scilloghann; Mullidae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mullinae; Mull
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BC003218 1606 bp mRNA linear ROD 29-JUN-2004 Mus musculus C-type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 9, mRNA (cDNA clone MGC:5682 IMAGE:3158063), complete cds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mus musculus
Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BC003218.1 GI:13096843
                     655.6

655.6

655.6

655.6

655.6

655.6

655.6

655.6

655.6

655.6

655.6

655.6

655.6

655.6

655.6

8997

655.6

8997

8133.3

100032

110032

110032

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

110033

11
                                                 RESULT 1
BC003218
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE
AUTHORS
                                                   Command line parameters:
-MODEL=frame+ p2n.model -DEV=x1h
-Q=/cgn2 iVBFPTO spool/US10812620/runat 07062005 124336 3244/app query.fasta_1.391
-DE-/cgn2 iVBFPTO spool/US10812620/runat 07062005 124336 3244/app query.fasta_1.391
-DB=GenEmbl -QFMT=fastap -STPFX=p2n.rge -MINMATCH=0.1 -LOOPCL=0 -LOOPEXT=0
-UNTS-bits -START=1 -END=-1 -MATRIX=biosum62 -TRANS=human40.cdi -LIST=45
-DOCALIGN=200 -THR_SCORE=pct -THR MAX=100 -THR_MIN=0 -ALIGN=15 -MODE=LOCAL
-UNTFMT=ptc -NORM=xt -HEAPST2E=500 -MINLEN 0 -MAXIEN=200000000
-USER=USI0812620_@CGN 1 1 4200 @runat 10762005 124336 3244 -NCPU=6 -ICPU=3
-NO MMAP -LARGEQUERY -NEG SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG
-DBV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BC003218 Mus muscu
AB024717 Mus muscu
E54035 Novel C lec
BD094039 A novel C
                                                                                                                                                      9, 2005, 09:46:10 ; Search time 4143 Seconds (without alignments) 2502.876 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pred. No, is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                    214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Description
                                                                                                                                                                                                                                                                                                                 1 MNSTKSPASHHTERGCFKNS.....IPCFYSMPWICEMPEISPLD
GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                                    OM protein - nucleic search, using frame plus p2n model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4708233 segs, 24227607955 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AB024717
E54035
BD094039
                                                                                                                                                                                                                                                                                                                                                                                                0.5
7.0
7.0
                                                                                                                                                                                                                                                                                                                                                                                           Xgapop 10.0 , Xgapext
Ygapop 10.0 , Ygapext
Fgapop 6.0 , Fgapext
Delop 6.0 , Delext
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Minimum DB seq length: .0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .
10
10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query
Match Length DB
                                                                                                                                                                                                                                                             US-10-812-620-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1606
2517
2517
2517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GenEmbl:*
                                                                                                                                                                                                                                                                                                                                                                     BLOSUM62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0
100.0
97.5
97.5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1179
1179
1149
1149
                                                                                                                                                                                                                                                                                         Perfect score:
                                                                                                                                                                                                                                                                                                                                                                     Scoring table:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score
                                                                                                                                                                                                                                                                                                                    Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Searched:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Database
                                                                                                                                                           Run on:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Š.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Result
```

AY358223 Homo map BC074967 Homo map BC074968 Homo map AX357481 Sequence AX3552523 Sequence AX25523 Sequence AX253515 Homo map AX355135 Homo map

AF240357 BC023008 AY358223 BC074967 BC074968

AF061272 AX155225 BD056526

20

AY297446 BC032313 BD136998

ALIGNMENTS

```
US-10-812-620-2 (1-214) x BC003218 (1-1606)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AB024717
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10528209
                                                                                      82
                                                                                                                        21
                                                                                                                                                                                                                                                                                                                                                                                                 101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      442
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        502
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        562
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           622
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             682
                                                                                                                                                                                                                                                                                                                               81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JOURNAL
MEDLINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 2
AB024717
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TITLE
                                                   ò
                                                                                 ద
                                                                                                                      ઠે
                                                                                                                                                 셤
                                                                                                                                                                                      ò
                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                               ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /db xref="taxon:10090"
/clone="MGC:5682 IMAGE:3158063"
/tissue type="Mammary tumor: C3(1)-Tag model. Infiltrating dutal carcinoma. 5 month old virgin mouse."
/clone lib="MCI GAAP_Mam6"
/lab_host="DH10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /translation="MNSTKSPASHHTERGCFKNSQVLSWTIAGASILFLSGCFITRCV
YTRSQSISGONLQPHRNIKELSCYSBASGSVKNCCPLNWHYOSSCYFFSTTTLTWS
SSLYNCSDWGAALLVIDTOIEOFFLFRTKKKEFYTGLTDQVHYGGQWQWNDFFT
SLSFWDAGEPNNIVULVEDCATIRDSSNSRKNWNDIPCFYSWPWICEMPBISPLD"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      be found
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ή.
Bouffard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D.,
Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M.,
Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Smailus, D.E.,
Schnerch, A., Schein, J.E., Jones, S.J. and Marra, M.A.
Generation and initial analysis of more than 15,000 full-length
human and mouse cDNA sequences
Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Clone distribution: MGC clone distribution information can be foun through the I.M.A.G.E. Consortium/LLNV at: http://image.llnl.gov Series: IRAK Plate: 6 Row: 1 Column: 23 This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 9910161. Location/Qualifiers
                                                                                                                                                                                        Submitted (20-PEB-2001) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
                                                                                                                                                                                                                                                                                                                                                                        Sequencing Center
Center code: BCM-HGSC
Web site: http://www.hgsc.bcm.tmc.edu/cdna/
Contact: amg@bcm.tmc.edu
Gunaratne, P.H., Garcia, A.M., Lu, X., Hulyk, S.W., Loulseged, Kowis, C.R., Sneed, A.J., Martin, R.G., Muzny, D.M., Nanavati, A.N., Gibbs, R.A.
                                                                                                                                                                                                                                                                                          Email: cgapbs-remail.nih.gov
Tissue Procurement: Jeffrey Green M.D.
TobNa Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G. E. Consortium (LINL)
DNA Sequencing by: Baylor College of Medicine Human Genome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ٩
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /codon_start=1
/product="C-type lectin, superfamily member
/protein id=mAH03218.1"
/db_xref="G1:13096844"
/db_xref="LocusID:56619"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1606
214
0
0
                                                                                                                                                                                                                                                            NIH-MGC Project URL: http://mgc.nci.nih.gov
Contact: MGC help desk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length:
Matches:
Conservative:
Mismatches:
Indels:
Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              'note="Vector: pCMV-SPORT6"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /note="synonym: Mincle"
/db_xref="LocusID:5619"
/db_xref="MGI:1861232"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       db_xref="MGI:1861232
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /mol_type="mRNA"
/strain="FVB/N"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1. .1606
/gene="Clecsf9"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /gene="Clecsf9"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          3.38e-111
1179.00
100.00%
100.00%
100.00%
                                                                                                                                      (bases 1 to 1606)
                                                                                                                                                                          Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         j. .1606
                                                                                                                                                          Strausberg, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Local Similarity:
Query Match:
DB:
                                                                                                                      2477932
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              No.
                                                                                                                                                                          TITLE
JOURNAL
                                                                                                                      PUBMED
REFERENCE
                                                                                                                                                     AUTHORS
                                                                                                                                                                                                                                                             REMARK
COMMENT
                                                                                                      JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ORIGIN
```

```
AB024717 2517 bp mRNA linear ROD 10-NOV-1999
Mus musculus mRNA for macrophage C-type lectin Mincle, complete
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (sites) (sites) Mateumoto, M., Tanaka, T., Kaisho, T., Sanjo, H., Copeland, N.G., Gilbert, D.J., Jenking, N.A. and Akira, S.
                                                                                                                                                                                                                                                                                                                                                                                                              100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   441
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Submitted (09-MAR-1999) Shizuo Akira, Osaka University, Department of Host Defense, Research Institute for Microbial Diseases; 3-1 Yamada-oka, Suita, Osaka 565-0871, Japan
                                  322 CCTTTGAACTGGAAACATTATCAATCTAGTTGTTATTTTTTTCTCTACGACAACCTTGACC 381
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAspThr 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrlleGly 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         501
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThrGlu 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         561
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCysAla 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         recergaderreradadadecedadadadadadarreregadadadadeed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               681
                                                                                                                                                                                                                                                     202 accadargreregracararesceaecrereaarrrecegecagaacrracagecacar 261
                                                                                                  40
                                                                                                                                                                                                        9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer
                                                                                                  GlnValLeuSerTrpThr1leAlaGlyAlaSer1leLeuPheLeuSerGlyCysPhe1le
                                                                                                                                                                                                                                                                                                                                                                                                              ProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrLeuThr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyrSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Accaraacecercricaacrecaggaacacaggaacragaargararacecrerrreagr
                                                                                                                                                                                                        41 ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGlnAsnLeuGlnProHis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MetProTrp1]eCysGluMetProGlu1]eSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ATGCCTTGGATTTGTGAGATGCCAGAAATAAGTCCTCTGGAC 723
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AB024717.1 GI:5821285
Mincle; macrophage C-type lectin Mincle.
Mus musculus (house mouse)
Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NF-IL6 in macrophages
J. Immunol. 163 (9), 5039-5048 (1999)
99458965
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           2 (bases 1 to 2517)
Akira, S. and Matsumoto, M.
Direct Submission
```

```
PAT 27-AUG-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GlnGluGluGluGluPheLeuPheArgThrLysProLysArgLysGluPheTyrlleGly 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ATGAATTCAACCAAATCGCCTGCATCCCACCACACAGAGGATGCTTCAAAACTCC 183
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAspThr 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          244 ACCAGATGTGTGTGTAACATATCGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCACAT 303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeuThr 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1 (bases 1 to 2517)
                                                                                                                                                                                                                                                                                  Mus sp. (mouse)
JP 2001112482-A/1
24-APR-2001
15-OCT-1999 JP 1999293724
SHIZUO SHINRA, MAKOTO MATSUMOTO
C12N15/09, AGIK38/00, AGIP37/04, AGIP43/00, C07K14/47,
C12Q1/68,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GlnValLeuSerTrpThrileAlaGlyAlaSerileLeuPheLeuSerGlyCysPhelle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          184 CAAGTGCTCTCCTGGACGATAGCCGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ThrangCysValValThrTyrArgSerSerGlnIleSerGlyGlnAsnLeuGlnProHis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGGTCATCAAGTTTAAAGAATTGCTCAGACATGGGGGCTCACCTGGTGGTATTCGACACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MetAenSerThriysSerProAlaSerHisHheThrGluArgGlyCysPheLysAenSer
                                                                     linear
      724 ATGCCTTGGATTTGTGAGATGCCAGAAATAAGTCCTCTGGAC 765
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2517
209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                        Shints, S. and Matsumoto, M.
Novel C lectin and gene thereof
Batent: JP 2001112482-A 1 24-APR-2001;
SCIENUE & TECH AGENCY
OS Mus sp. (mouse)
PN JP 2001112482-A/1
PD 34-APR-2001
PF 15-OCT-1999 JP 1999293724
PI SHISLO SHINRA, MAKOTO MATSUMOTO
PC C12N15/09, A61K39/00, A61P37, PC C1201/68,
PC C12N15/00, A61K37/02
CC CC CT Key
                                                                                                                                                                                                                                                                                                                                                                                                                                     Location/Qualifiers.
                                                                     DNA
                                                                   2517 bp
gene thereof
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1. .2517
/organism="Mus sp."
/mol_type="genomic DNA"
/db_xref="taxon:10095"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-812-620-2 (1-214) x E54035 (1-2517)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 6.95e-108
1149.00
98.13%
97.66%
                                                                                                                E54035.1 GI:22553489
JP 2001112482-A/1.
                                                                                    lectin and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                                                                                                                                                 Мив вр.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   484
                                                                  LOCUS
DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ..
No.:
                                                                                                                                                                                                            REFERENCE
AUTHORS
TITLE
JOURNAL
                                    RESULT 3
E54035
                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                                                                                                                                                                            COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          名
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                      /procedin id="Baba3754 1"
/db_xref="G1:5821286"
/db_xref="G1:5821286"
/db_xref="G1:5821286"
/db_xref="G1:5821286"
/dranslation="MNSTKSPRAHTERGCFKNSQVLSWTIAGASILPLSGCFITRCV
/TYRSSQISGONLQPHRNIKELESCYBEASGSVKNCCPLNWKHYQSSCYFFSTTTLTWS
SSLKNCSDMGAHLVVIDTQEEQEFLFRTKPKRKEFYIGLTDQVVEGGWQWVDDTFFFF
SLSFWDAGBPNNIVLVEDCATIRDSSNSRKNWNDIPCFYSWPWICEMPEISPLD"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeuThr 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAspThr 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GlnGluGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrlleGly 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThrGlu 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCysAla 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTGACAGACCAGGTGGTGAGGGTCAGTGGGTGGATGATGACACCTTTCACAGAG 603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        regreateaterraagaarrecreagaearegegeereaceregegerarearea 483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TCCCTGAGCTTCTGGGATGCTGGGGAGCCCAACAATATAGTTTTTGGTGGAGGACTGTGCC 663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GlnValLeuSerTrpThr1leAlaGlyAlaSerIleLeuPheLeuSerGlyCysPhe1le 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGlnAsnLeuGlnProHis 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCysCys 80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MetabnSerThrLysSerProAlaSerHisHhrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CAAGTGCTCTCCTGGACGATAGCCGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACCAGATGTGTCGTAACATATCGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AGAAATATAAGGAGCTTTCCTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CCTTTGAACTGGAAACATTATCAATCTAGTTGTTATTTTTTCTCTACGACAACCTTGACC
(E-mail:sakira@biken.osaka-u.ac.jp, Tel:81-6-6879-8303,
Fax:81-6-6879-8305)
Location/Qualifiers
                                                                                                                                                                                          'product="macrophage C-type lectin Mincle"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MetProTrpIleCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                       2517
214
0
0
0
                                                                                                                                                                                                                                                                                                                                                       Length:
Matches:
Conservative:
Mismatches:
Indels:
Gaps:
                                                           /organism="Mus musculus"
/mol_type="mRNA"
/db_xref="taxon:10090"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (1-2517)
                                                                                                                                            124. .768
/gene="Mincle"
/codon_start=1
                                                                                                                x AB024717
                                                                                                                                                                                                                                                                                                                                                      5.74e-111
1179.00
100.00%
100.00%
100.00%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (1-214)
                                                                                                                                                                                                                                                                                                                                                                                Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                        Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   US-10-812-620-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                184
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     484
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      544
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   604
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  664
                                                                                                                gene
                                                                                                                                            CDS
                                 FEATURES
                                                                                                                                                                                                                                                                                                         DRIGIN
                                                                                                                                                                                                                                                                                                                                                                         Score:
```

셤

8

ò

q

ద

ઠે

g

ò

8 8

8 6

8 8

g

8 &

6 8 6

243

9

40

20

483

a δ a ठे g ò 원

```
AY363175 730 bp mRNA linear ROD 12-OCT-2004 Rattus norvegicus macrophage-inducible C-type lectin (Clecsf9) mRNA, complete cds.
AY363175 GI:38352001
                                                                                                                                                                                                                                                                 603
                                                                                                                                                                                                                                                                                                     180
                                                                                                                                                                                                                                                                                                                                    663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gene
                                  100
                                                                 423
                                                                                                TrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAspThr 120
                                                                                                                                 483
                                                                                                                                                                  GlnGluGluGluGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIleGly 140
                                                                                                                                                                                                   543
                                                                                                                                                                                                                                    LeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThrGlu 160
                                                                                                                                                                                                                                                                                                                                                                     200
                                                                                                                                                                                                                                                                                                                                                                                       Rattus norvegicus (Norway rat)
Stattus norvegicus
Eukartus Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Box 1105
 304 AGAAATATTAAGGAGCTTTCCTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGT
                                                                                                                   484 CAGGAAGAGCAGGAATTCCTTTTTCGCACAAAATCTAAAAGGAAAGAGTTTTATATTTGGA
                                                                                                                                                                                                                                                                     544 crdacadaccaderecreasedrescarescarioscarescarearacacerrreacadas
                                                                                                                                                                                                                                                                                                     SerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCysAla
                                                                                                                                                                                                                                                                                                                                      604 TCCCTGACCTTCTGGGATGCTGGGGAGCCCAACAATATAGTTTTGGTGGAGGACTGTGCC
                                                                                                                                                                                                                                                                                                                                                                     ThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyrSer
                                  ProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrLeuThr
                                                     Rattus.

1 (bases 1 to 730)

Flormes,L.M., Bryceson,Y.T., Spurkland,A., Lorentzen,J.C.,
Dissen,E. and Fossum,S.
Identification of lectin-like receptors expressed by antigen
presenting cells and neutrophils and their mapping to a novel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /db_xref="taxon:10116"
/chromosome="4"
/map="4q42; in antigen presenting cell lectin-like
receptor gene complex; APLEC"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Immunogenetics 56 (7), 506-517 (2004)
2 (bases 1 to 730)
Flornes, L.M., Dissen, E. and Fossum, S.
Direct Submission
Submitted (06-Aug-2003) Anatomy, University of Oslo, PO I Blindern, Oslo, 0317, Norway
Location/Qualifiers
1, 730
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /codon_start=1
/product="macrophage=inducible C-type lectin"
/protein_id="AAR18685.1"
/db_xref="G1:38352002"
                                                                                                                                                                                                                                                                                                                                                                                                                                                        724 ATGCCTTGGATTTGTGAGATGCCAGAAATAAGTCCTCAGGAC 765
                                                                                                                                                                                                                                                                                                                                                                                                                                       214
                                                                                                                                                                                                                                                                                                                                                                                                                                       201 MetProTrpileCysGluMetProGluileSerProLeuAsp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism="Rattus norvegicus"
/mol_type="mRNA"
/strain="PVG"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             note="synonym: Mincle"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gene="Clecsf9"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ...730
gene="Clecsf9"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           51. .698
                                                                                                    101
                                  81
                                                                                                                                                                    121
                                                                                                                                                                                                                                     141
                                                                                                                                                                                                                                                                                                     161
                                                                                                                                                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 5
AY363175
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JOURNAL
REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE
                                                         g
                                                                                                ò
                                                                                                                          엄
                                                                                                                                                           ठे
                                                                                                                                                                                               g
                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                               d
                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    유
                      8
                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Eukaryota; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
E 1 (bases 1 to 2517)
A kira, S. and Matsumoto, M.
A novel C-type lectin and its genes
L Patent: WO 0127271-A 19-APR-2001;
JAPAN SCIENCE AND TECHNOLOGY CORP, SHIZUO AKIRA, MAKOTO MATSUMOTO
OS Mus sp. (mouse)
PN WO 0127271-A/1
PP 19-APR-2001
PF 02-OCT-2000 WO 2000JP006820
PR 15-OCT-1999 JP 99P 293724
PI SHIZUO AKIRA, MAKOTO MITSUMOTO
PC C12N15/12, CO7K14/47, C12Q1/68, A61K38/17, A61P31/00, A61P37/04, PC
A61P43/00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Я
                                                                                                                                                                                                                                                                                                       PAT 27-AUG-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            183
                                603
                                                                   180
                                                                                                    663
                                                                                                                                 184 CAAGTGCTCTCCTGGACGATAGCCGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATC 243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            244 ACCAGATGTGTCGTAACATATCGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCACAT 303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           41 ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGlnAsnLeuGlnProHis 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               80
                   544 CTGACAGACCAGGTGGAGGGTCAGTGGCAATGGGAGGATGATACACCTTTCACAGAG
                                                                 SerLeuSerPheTrpAspAlaGlyGluProAsnAsn1leValLeuValGluAspCysAla
                                                                                  GlnValLeuSerTrpThr1leAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThrGlu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                     linear
                                                                                                                                                                                                                                    765
                                                                                                                                                                                                   MetProTrplleCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2517
209
1
4
0
                                                                                                                                                                                                                      724 ATGCCTTGGATTTGTGAGATGCCAGAAATAAGTCCTCAGGAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Location/Qualifiers
                                                                                                                                                                                                                                                                                                       DNA
                                                                                                                                                                                                                                                                                           A novel C-type lectin and its genes. BD094039
BD094039.1 GI:22639627
MNO 0127271-A/1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1. .2517
/organism="Mus sp."
/mol_type="genomic DNA
/db_xref="taxon:10095"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (1-2517)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         x BD094039
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6.95e-108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1149.00
98.13%
97.66%
97.46%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US-10-812-620-2 (1-214)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Key
                                                                                                                                                                                                                                                                                                                                                                                     Мив вр.
                                                                                                                                                                                                                                                                                                                                                                                                      дв впм
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ~
                                                                 161
                                                                                                                                                                                                   201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               61
                                                                                                                                                                                                                                                                                                                DEFINITION
ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ..
0
                                                                                                                                                                                                                                                                                                                                                                                                    ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                    BD094039
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
```

COMMENT

ORIGIN

8 유 ò g

셤 ઠે

```
RS Strausberg, R.L., Feingold, E.A., Grouse, L.H., Derge, J.G.,
Klausherg, R.L., Zeeberg, B., Buetow, K.H., Scheder, C.F., Bhat, N.K.,
Altschul, S.F., Zeeberg, B., Buetow, K.H., Schader, C.F., Bhat, N.K.,
Hopkina, R.F., Jordan, H., Moore, T., Max, S.I., Wang, J., Haich, F.,
Diatchenko, L., Marusina, K., Farmer, A.A., Rubin, G.M., Hong, L.,
Staplecon, M., Soares, M.B., Bonaldo, M.F., Casavant, T.L.,
Scheet, T.E., Brownstein, M.J., Usdin, T.B., Toshiyuki, S.
Carninci, P., Prange, C., Raha, S.S., Loquellano, N.A., Peters, G.J.,
Abramson, R.D., Mullahy, S.J., Bosak, S.A., McEwan, P.J.,
Morley, K.C., Hale, S., Garcia, A.M., Gay, L.J., Hulyk, S.W.,
Villalon, D.K., Muzny, D.M., Sodergren, E.J., Luy, K. Gibbs, R.A.,
Fahey, J., Helton, B., Ketteman, M., Madan, A., Rodrigues, S.,
Sanchez, A., Whiting, M., Madan, A., Young, A.C., Shevchenko, Y.,
Butfard, G.G., Blakesley, R.W., Touchman, J.W., Green, E.D.,
Dickson, M.C., Rodriguez, A.C., Grimwood, J., Schmutz, J., Myers, R.M.,
Butterfield, Y.S., Krzywinski, M.I., Skalska, U., Smailus, D.E.,
Generation and initial analysis of more than 15,000 full-length
human and mouse cDNA sequences
D. 12477922
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 44...743 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 | 45...600 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            found
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Clone distribution: MGC clone distribution information can be foun through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Serias: IRAL Plate: 7 Row: i Column: 14
This clone was selected for full length sequencing because it passed the following selection criteria: matched mRNA gi: 7657332.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Direct Submission
Submitted (15-NO-2000) National Institutes of Health, Mammalian
Gene Collection (MGC), Cancer Genomics Office, National Cancer
Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    With-MGC Project URL: http://mgc.nci.nih.gov
On Aug 19, 2003 this sequence version replaced gi:12653848.
Ontact: MGC help desk
Email: cgapba-r@mail.nih.gov
Tissue Procurement: DCTD/DTP
CDNA Library Preparation: Rubin Laboratory
CDNA Library Arrayed by: The LiM.G. E. Consortium (LLNL)
DNA Sequencing by: Institute for Systems Biology
http://www.systemsbiology.org
contact: amadanageystemsbiology.org
Anup Madan, Jessica Rahey, Erin Helton, Mark Ketteman, Anuradha
Madan, Stephanie Rodrigues, Amy Sanchez and Michelle Whiting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /tissue_type="Kidney, renal cell adenocarcinoma"
/clone_lib="NIH MGC_14"
/lab_host="DH10B-R"=
/note="Vector: pOTB7"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /mol_type="mgNA"
/db_xref="taxon:9606"
/clone="MGC:1246 IMAGE:3507103"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /db_xref="LocusID:26253"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /note="synonfym: MINCLE"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /gene="CLECSF9"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (bases 1 to 927)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Strausberg, R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PUBMED
REFERENCE
AUTHORS
TITLE
JOURNAL
                             AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               gene
           REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REMARK
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SCO
/translation="MNSTKSPASHHTERECFKNSQVLSWTWAGASILFLSVCFITRCV
YTHSFQITQOKKLQPHKTIKELSCFLEASGSYKNCCPLWWHTPGSSCFFSFTTTLSW
LSSLKNCSDWGAHLVVINTWERGEFLETREKRKKEFTGLTDQVVEGWRWVDDTPFT
ESLSFWDAGEPNNIVFVEDCATMRDSSNPRKMWNDVSCFFSMPWICEMPEISPLD"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PRI 29-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATGAATTCAACCAAATGGCCTGCATCACACCACAGAGAGAAGAATGCTTCAAAAACTCC 110
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        290
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TGCCCTTTGAACTGGAAACATTTTCAGTCTAGTTGCTACTTTTTCTCTACAACCACCTTA 350
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100 ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValVallleAsp 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                351 TCCTGGCTATCAAGTCTAAAGAATTGCTCAGACATGGGGGCTCACCTGGTGGTTATCAAC 410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ThrGlnGluGluGluGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GGACTGACAGACCAGGTTGTGGAGGGTCAGTGGCGATGGGTGGATGATACACCTTTCACA 530
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        171 ACCAGATGTGTTGTAACATATCACAGTTTTCAAATTTATGGGCAGAAGAAGTTACAGCCA 230
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnBro 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    60 HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys 79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeu 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Primates, Catarrhini, Hominidae, Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              927 bp mRNA linear PRI 29-JUN-20 Howo sapiens C-type (calcium dependent, carbohydrate-recognition domain) lectin, superfamily member 9, mRNA (cDNA clone MGC:1246 INAGE:3507103), complete cds.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        695
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             200 SerMetProTrp1leCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AGTATGCCTTGGATTTGTGAGATGCCAGAAATAAGTCCTTTGGAC
                                                                                                                                                                                                                                                          730
1190
113
                                                                                                                                                                                                                                                       Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                          Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-10-812-620-2 (1-214) x AY363175 (1-730)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BC000715.2 GI:33875777
                                                                                                                                                                                                                                                   2.73e-98
1049.50
93.49%
88.37%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens (human)
Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity:
                                                                                                                                                                                                                                                                                                                          Percent Similarity:
                                                                                                                                                                                                                         Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           531
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         591
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 471
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    651
                                                                                                                                                                                                                                                                                                                                                                                                 Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                              ..
9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BC000715
                                                                                                                                                 ORIGIN
```

셤

ò a ò a

ò

g

8 g ò

8

ద

8 8

કે 엄 ર્જ

g

용

ઠે

용

```
US-10-812-620-2 (1-214) x AX083498 (1-968)
       Location/Qualifiers
                                                                       7.9e-70
774.00
79.07%
66.51%
65.65%
Genomics,
                                                                                       Percent Similarity:
Best Local Similarity:
 Incyte
                                                                  Alignment Scores:
                                                                                                                                                          162
                                                                                                                                                                       21
                                                                                                                                                                                      219
                                                                                                                                                                                                     41
                                                                                                                                                                                                                   279
                                                                                                                                                                                                                                                               80
                                                                                                                                                                                                                                                                                            100
                                                                                                                                                                                                                                                                                                         459
                                                                                                                                                                                                                                                                                                                        120
                                                                                                                                                                                                                                                                                                                                                      140
                                                                                                                                                                                                                                                                                                                                                                    579
                                                                                                                                                                                                                                                                                                                                                                                   160
                                                                                                                                                                                                                                                                                                                                                                                                 639
                                                                                                                                                                                                                                                                                                                                                                                                                180
                                                                                                                                                                                                                                                                                                                                                                                                                              669
                                                                                                                                                                                                                                                                                                                                                                                                                                             200
                                                                                                                                                                                                                                                                                                                                                                                                                                                           759
                                                                                                      Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                         Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 8
BD172543
        FEATURES
                                                    ORIGIN
                                                                                                                                           ò
                                                                                                                                                       셤
                                                                                                                                                                     õ
                                                                                                                                                                                    В
                                                                                                                                                                                                    ò
                                                                                                                                                                                                               셤
                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                          q
                                                                                                                                                                                                                                                                                        ठ
                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                              요
                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                          g
                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                           셤
                                                                                                                                                                                                                                                                                                                                                                                                                                              28-FEB-2001
                                                                                                                                                                                                                                                                                                                                     140
                                                                                                                          260
                                                                                                                                                                                     500
                                                                                                                                                                                                                                                                                                                                                                    AlaThrIleArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                ThrTrpSerSerSerLeuLygABnCygSerAspMetGlyAlaHisLeuValValIleAsp 119
                                                                                                                                                                                                                                                                             120 ThrGlnGluGluGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                       GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr
                                                                                                                                                                                                                                                                                                                                                                            1 MetAsnSerThrLysSerProAlaSerHisHisHrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                      Lal,P., Yue,H., Tang,Y.T., Bandman,O., Burford,N., Azimzai,Y., Baughn,M.R., Lu,D.A. and Patterson,C.
Membran associated proteins
Patent: WO 0112662-A 40 22-FEB-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                              PAT
                                                                                                                                                                                                                                                                                                                                                                                                 SerMetProTrpileCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                        AATTATTTCGGATTTGTGAAATGGTAGGAATAAATCCTTTGAAC 725
                                                                                                                                                                                                                                                                                                                                                                                                                                              linear
                            927
143
27
2
2
2
                            Length:
Matches:
Conservative:
Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                             DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                             968 bp
WO0112662,
                                                                  Gaps:
                                                                                (1-927)
                                                                                                                                                                                                                                                                                                                                                                                                                                            AX083498
Sequence 40 from Patent
AX083498
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AX083498.1 GI:13185308
                                                                                x BC000715
                           7.51e-70
774.00
79.07%
66.51%
65.65%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens (human)
Homo sapiens
ដ
                                                                                US-10-812-620-2 (1-214)
                                          Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                      Scores
                                                                                                                                                                                                                                                100
                                                                                                                                                                                                                                                                                           441
                                                                                                                                                                                                                                                                                                                        501
                                                                                                                                                                                                                                                                                                                                                                                                 200
                                                                                                                                                                                                                                                                                                          140
                                                                                                                                                                                                                                                                                                                                                                     180
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                    AX083498
LOCUS
DEFINITION
                            . No. :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 7
                                                                                              ò
                                                                                                          셤
                                                                                                                          ò
                                                                                                                                        a
                                                                                                                                                   8
                                                                                                                                                                  g
                                                                                                                                                                                    õ
                                                                                                                                                                                                a
                                                                                                                                                                                                              8
                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                        음 장
                                                                                                                                                                                                                                                                                        q
                                                                                                                                                                                                                                                                                                         ઠે
                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                  8
                                                                                                                                                                                                                                                                                                                                                  ద
                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                              ద
                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                               셤
```

```
BD172543 · 997 bp DNA linear PAT 18-FEB-2003 Secreted and transmembrane polypeptides and nucleic acids encoding the same.
BD172543.1 GI:28413845
JP 2002223786-A/316.
Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                     218
                                                                                                                                                                                                                                                                                                                                                                                        278
                                                                                                                                                                                                                                                                                                                                                                                                                                              398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ThrTrpSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAsp 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TCCTGGGCGTTAAGTTTAAAGAACTGCTCAGCCATGGGGGGCTCACCTGGTGGTTATCAAC 518
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ThrGlnGluGluGluGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              638
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AlaThrileArgAspSerSerAsnSerArgLyBAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeu 99
                                                                                                                                                                                                                                                                                    MetAenSerThriysSerProAlaSerHisHisHisThrGluArgGlyCysPheLysAenSer
                                                                                                                                                                                                                                                                                                         GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle
                                                                                                                                                                                                                                                                                                                                                                            ThrargCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          60 HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           339 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGGTCAAGAATTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SerMetProTrpileCysGluMetProGluileSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    968
1143
227
2
                                                                                                                                 Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                /note="Incyte ID No: 1521513CB1"
1. .968
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                   Gaps:
```

```
Yuan, J
                                                                                                      41
                                                                                                                                                                                                                           9
                                                                                                                                                                                                                                                                                  283
                                                                                                                                                                                                                                                                                                                                                 80
                                                                                                                                                                                                                                                                                                                                                                                                              343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          463
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         180
                                         163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BD172862
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                         ઠે
                                                                                                                                     유장
                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                        셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                 ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            원
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2
                                                                                                                                                            Secreted and transmembrane polypeptides and nucleic acids encoding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ы
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MetAsnSerThrLysSerProAlaSerHisHisThrGludrgGlyCysPheLysAsnSer 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21 GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C12P21/02//C12P21/08, (C12P21/02, C12R1:19), (C12P21/02, C12R1:91), (C12P21/02, C12R1:645), C12N15/00, C12N5/00
CC Secreted and transmembrane polypeptides and nucleic CC ac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              JEAN YUAN
CI2N15/09, C07K14/47, C07K16/18, C07K19/00, C12N1/19, C12N1/21,
                                                                                                                                                                                                                                                                                                                                                                                                              PR
                                                                                                  Wood, W.I., Gurney, A.L., Goddard, A., Pennica, D., Zheng, J. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        60/066840 PI
DIANE PENNICA
                                                                                                                                                                                                                                                                                                                                                                                                                                              60/063735 E
60/064103 E
60/064248 E
60/065186 E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    60,059121
60,059263
60,062285
60,062381
60,063121
60,063121
60,063327
60,063541
60,063542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         60/063435
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               60/066466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               60/066511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  60/065693
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  60/066364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ce 1. .997 / Organism='Homo sapiens (human)'. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                 1.997 US 60/059122, JT-SEP-1997 US 60/059113, JT-SEP-1997 US 60/059113, JT-SEP-1997 US 60/059113, JT-SEP-1997 US 60/059119, IB-SEP-1997 US 60/059119, IB-SEP-1997 US 60/059120, JT-OCT-1997 US 60/052287, JT-OCT-1997 US 60/052287, JT-OCT-1997 US 60/053120, Z4-OCT-1997 US 60/053120, Z4-OCT-1997 US 60/053429, Z4-OCT-1997 US 60/05359, Z4-OCT-1997 US 60/05359, Z4-OCT-1997 US 60/05359, Z4-OCT-1997 US 60/05359, Z4-OCT-1997 US 60/05359, Z4-OCT-1997 US 60/05359, Z4-OCT-1997 US 60/05359, Z4-OCT-1997 US 60/05359, Z4-OCT-1997 US 60/05359, Z4-OCT-1997 US 60/05359, Z4-OCT-1997 US 60/05359, Z4-OCT-1997 US 60/05359, Z4-OCT-1997 US 60/05359, Z4-OCT-1997 US 60/05359, Z4-OCT-1997 US 60/05359, Z4-OCT-1997 US 60/05359, Z4-OCT-1997 US 60/05359, Z4-OCT-1997 US 60/05359, Z4-OCT-1997 US 60/05359, Z4-OCT-1997 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/0590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/05590 US 60/
                                                                                                                                                                                                                                                                                                                                                                                                 US 60/059115,17-SEP-1997 US 60/059113,17-SEP-1997 US 60/059113,17-SEP-1997 US 60/059113,17-SEP-1997 US 60/05928,17-OCT-1997 US 60/053465,15-OCT-1997 US 60/053465,24-OCT-1997 US 60/053120,24-OCT-1997 US 60/05359,24-OCT-1997 US 60/05359,24-OCT-1997 US 60/05359,24-OCT-1997 US 60/053589,28-OCT-1997 US 60/053589,28-OCT-1997 US 60/053589,28-OCT-1997 US 60/053549,28-OCT-1997 US 60/053544,28-OCT-1997 US 60/053549,28-OCT-1997 US 60/053540,28-OCT-1997 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            997
143
27
22
22
                                                                                                                                                                                                     Detent: JP 200223786-A 316 13-AUG-2002;

GENENTECH INC

S Home Sapiens (human)

PD 200223786-A/316

PD 13-AUG-2002

FF 18-DEC-2001 JP 2001385135

IN-SEP-1997 US 60/053115,17-SEP-1997 US

17-SEP-1997 US 60/053113,17-SEP-1997 US

18-DECT-1997 US 60/053113,17-SEP-1997 US

18-DECT-1997 US 60/05312,17-SEP-1997 US

24-OCT-1997 US 60/063287,17-OCT-1997 US

24-OCT-1997 US 60/063129,24-OCT-1997 US

24-OCT-1997 US 60/063129,29-OCT-1997 US

24-OCT-1997 US 60/063129,29-OCT-1997 US

28-OCT-1997 US 60/063129,29-OCT-1997 US

29-OCT-1997 US 60/063129,20-OCT-1997 US

29-OCT-1997 US 60/063129,20-OCT-1997 US

29-OCT-1997 US 60/063129,20-OCT-1997 US

21-NOV-1997 US 60/063120,21-NOV-1997 US

24-NOV-1997 US 60/063120,21-NOV-1997 US

24-NOV-1997 US 60/063120,21-NOV-1997 US

24-NOV-1997 US 60/065120,21-NOV-1997 US

24-NOV-1997                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1. .997
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (1-997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           x BD172543
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8.18e-70
774.00
79.07%
66.51%
65.65%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       encoding the same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        24-NOV-1997
WILLIAM I WC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-812-620-2 (1-214)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IAN ZHENG,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C12N5/10,
                                                                                                                                                                                               same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Alignment Scores:
                                                                                                                                                                                               the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ..
..
                                                                      REFERENCE
                                                                                                  AUTHORS
                                                                                                                                                                                                                     JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURES
                                                                                                                                                         TITLE
                                                                                                                                                                                                                                                                                  COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ሯ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           슝
```

```
BD172862 997 bp DNA linear PAT 18-FEB-2003
Secreted and transmembrane polypeptides and nucleic acids encoding
                                                                                                                                                                                                                                                                                                                                                                                                        159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           179
                                                                                                                                                        342
                                                                                                                                                                                                                                                              ThrTrpSerSerSerLeuLyBABnCyBSerAspMetGlyAlaHisLeuValVallleAsp 119
                                                                                                                                                                                                                                                                                                                                   139
                                                                                                                                                                                                                                                                                                                                                                                                                                          582
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              642
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CAAAIGITCTTAIGGACIGITGCTGGGAICCCCAICCTAITTCTCAGIGCCTGITTCAIC 222
                                                                                                                                                                                                                             402
                                                                                                                                                                                                                                                                                                462
                                                                                                                                                                                                                                                                                                                                                                    522
                                                                                     282
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        nucleic acids encoding
                                                                                                                      79
                                                    5
                                                                                                                                                                                            CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrLeu 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 997)
Wood, W.I., Gurney, A.L., Goddard, A., Pennica, D., Zheng, J. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 띪
                                                                        HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys
                                                                                                                                                                                                               TGTCCATTGAACTGGGAATATTTTCAATCCAGCTGCTACTTCTTTTTTTAACTGACACCATT
                                                                                                                                                                                                                                                                                    TCCTGGGCGTTAAAGTTTAAAGAACTGCTCAGCCATGGGGGGCTCACCTGGTGGTGGTTATCAAC
                                                                                                                                                                                                                                                                                                                                                                                                        GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr
                                                                                                                                             CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                          GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro
                                                                                                                                                                                                                                                                                                                                   ThrGlnGluGluGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle
                                                                                                                                                                                                                                                                                                                                                                    rcacaggaggaggagrartrccracaagaaaccraaaargagagagagrrrrrrr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               60/059184
59117 PR
59121 PR
59263 PR
52125 PR
52215 PR
62215 PR
63127 PR
63121 PR
63121 PR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                60/059121
60/059263
60/062125
60/062285
60/062816
60/063127
60/063128
60/063128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               60/059117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       200 SerMetProTrpileCysGlumetProGluileSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         US 60/059115,17-SEP-1997 US 60/059112,17-SEP-1997 US 60/059113,17-SEP-1997 US 60/059113,17-SEP-1997 US 60/059126,15-OCT-1997 US 60/05287,17-OCT-1997 US 60/053110,24-OCT-1997 US 60/053110,24-OCT-1997 US 60/053129,24-OCT-1997 US 60/053129,24-OCT-1997 US 60/053129,24-OCT-1997 US 60/063129,24-OCT-1997 US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Secreted and transmembrane polypeptides and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Patent: JP 2002238586-A 316 27-AUG-2002,
GENENTECH INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens (human)
JP 2012238586-A/316
27-AuG-2001
18-DEC-2001 JP 2001385205
17-SEP-1997 US 60/059115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BD172862.1 GI:28414166
JP 2002238586-A/316.
Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   OS Homo Bap
PN JP 20022
PD 27-AUG-2
PF 18-DEC-2
PR 17-SEP-1997 U
17-SEP-1997 U
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  18-SEP-1997 U
17-OCT-1997 U
21-OCT-1997 U
24-OCT-1997 U
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       24-OCT-1997 U
24-OCT-1997 U
27-OCT-1997 U
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               he вате.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            the same
```

```
997 bp DNA linear PAT 18-FEB-2003 and transmembrane polypeptides and nucleic acids encoding
                                                                                                                                                                                                                                                                                                           AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                 643 GCCACCATGAGAGACTCTTCAAAACCCAAGGCAAAATTGGAATGATGATGTAACCTGTTTCCTC 702
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Secreted and transmembrane polypeptides and nucleic acids encoding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C12P21/02,C12P21/08//(C12P21/02,C12R1:91),(C12P21/02,C12R1:19), PC (C12P21/02,C12R1:645),C12N15/00,C12N5/00,C12N5/00,C12N5/00 CC Secreted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ы
                                                                                 GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys
                                                                                                                                                                                                               GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               JEAN YUAN
C12N15/09,C07K14/47,C07K16/18,C12N1/19,C12N1/21,C12N5/10,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DIANE PENNICA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 (bases 1 to 997)
Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 050/059117 | 60/059117 | 60/059117 | 60/059117 | 60/05918 | 60/062185 | 60/062185 | 60/063121 | 60/063121 | 60/063121 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/063354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065354 | 60/065
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               :::
AATTATTTCGGATTTGTGAAATGGTAGGAATAAATCCTTTGAAC 747
                                                                                                                                                                                                                                                                                                                                                                                                                                             SerMetProTrplleCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GODDARD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   60 (059122, 17-58P-1997 U 60 (059121, 17-58P-1997 U 60 (059119, 18-58P-1997 U 60 (059287, 17-67P-1997 U 60 (059287, 17-67P-1997 U 60 (059386, 24-0CT-1997 U 60 (059384, 24-0CT-1997 U 60 (059384, 28-0CT-1997 U 60 (059384, 28-0CT-1997 U 60 (059384, 28-0CT-1997 U 60 (059384, 28-0CT-1997 U 60 (0593874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0693874, 29-0CT-1997 U 60 (0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Patent: JP 2002238587-A 316 27-AUG-2002,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               60/066772,24-NOV-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 60/066770,24-NOV-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GURNEY, AUDREY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7-AUG-2002
8-DEC-2001 JP 2001385248
7-SEP-1997 US 60/05911
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens (human)
JP 2002238587-A/316
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BD173181.1 GI:28414490
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JP 2002238587-A/316.
Homo sapiens (human)
Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            17-SEP-1997 US
17-SEP-1997 US
18-SEP-1997 US
18-SEP-1997 US
17-CCT-1997 US
24-CCT-1997 US
24-CCT-1997 US
28-CCT-1997 US
28-CCT-1997 US
28-CCT-1997 US
29-CCT-1997 US
29-CCT-1997 US
29-CCT-1997 US
29-CCT-1997 US
29-CCT-1997 US
29-CCT-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV-1997 US
24-NOV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GENENTECH INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JIAN ZHENG.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PC C12N1:
C12N15/02,
PC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BD173181
Secreted at
the same.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          the same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Yuan, J.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PF PN S
                                                                                                                                                                             160
                                                                                                                                                                                                                                                                                                           180
                                                                                                                                                                                                                                                                                                                                                                                                                                             200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          703
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BD173181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMMENT
                                                                                            g
                                                                                                                                                                      8
                                                                                                                                                                                                                                       요
                                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            acida
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (C12N5/10,C12R1:91), (C12P21/02,C12R1:91), (C12P21/02,C12R1:645), PC (C12P21/02,C12R1:91), (C12P21/08,C12R1:91), (C12N5/00,C12R1:91) (C12N5/00,C12R1:91) (C12N5/00,C12R1:91) (C12N5/00,C12R1:91)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JEAN YUAN
C12N15/09,C07K14/47,C07K16/18,C07K19/00,C12N1/19,C12N1/21, PC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C12P21/02//C12P21/08, (C12N1/19, C12R1:645), (C12N1/21, C12R1:19)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     283 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT 342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TCCTGGGCGTTAAGTTTAAAGAACTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAAC 462
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ThrGlnGluGluGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               522
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100 ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValVallleAsp 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GlnValLeuSerTrpThr1leAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CysproLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeu 99
28-OCT-1997 US 60/063549,28-OCT-1997 US 60/063541 PR 28-OCT-1997 US 60/063550,28-OCT-1997 US 60/063542 PR 29-OCT-1997 US 60/06354,28-OCT-1997 US 60/063542 PR 29-OCT-1997 US 60/06374,29-OCT-1997 US 60/063738 PR 29-OCT-1997 US 60/063738 PR 60/063738 PR 29-OCT-1997 US 60/063732,31-OCT-1997 US 60/063732,31-OCT-1997 US 60/064103 PR 60/064103 PR 60/064103 PR 60/064103 PR 60/064103 PR 60/064103 PR 60/064103 PR 60/064103 PR 60/064103 PR 60/064103 PR 60/064103 PR 60/064103 PR 60/064103 PR 60/066344 PR 60/066344 PR 60/066344 PR 60/066344 PR 60/066344 PR 60/066370,24-NOV-1997 US 60/066344 PR 60/066370,24-NOV-1997 US 60/066344 PR 60/066370,24-NOV-1997 US 60/066344 PR 60/066370,24-NOV-1997 US 60/066370,24-NOV-1997 US 60/066370,24-NOV-1997 US 60/066370,24-NOV-1997 US 60/066370,24-NOV-1997 US 60/066370,24-NOV-1997 US 60/066370,24-NOV-1997 US 60/066370,24-NOV-1997 US 60/066340 PI WILLIAM I WOOD, AUSTIN L GURNEY, AUDREY GODDARD, DIANE PENNICA, PI ZHENG.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ы
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        60 HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerVallysAsnCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CC Secreted and transmembrane polypeptides and nucleic CC encoding the same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ce 1. .997
/organism='Homo sapiens (human)'.
Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     997
27
27
28
3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length:
Matches:
Conservative:
Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1. .997
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (1-997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  x BD172862
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8.18e-70
774.00
79.07%
66.51%
65.65%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-812-620-2 (1-214)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Percent Similarity:
Best Local Similarity:
Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C12N5/10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            463
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORIGIN
```

ò 吕 ò ద ઠે 셤 ò d 8 6 ò g ð

Я

nucleic acids encoding

PR

60/059121 60/059263 60/062125 60/062285

60/059117

60/062816 60/063127 60/063121 60/063128

σ

ORIGIN

셤

Š g ò 음

ò

```
CC C12P21/02//C12P21/08, (C12N1/19,C12R1:645), (C12N1/21,C12R1:19), CC (C12N5/10,C12R1:91), C12N15/00,C12N5/00, (C12N5/00,C12R1:91) CC Secreted and transmembrane polypeptides and nucleic CC acids
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Buteleostomi, Mammalla, Butherla, Primates, Catarrhini, Hominidae, Homo. 1 (bases 1 to 997) (bases Wood,W.I., Gurney,A.L., Goddard,A., Pennica,D., Zheng,J. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   JEAN YUAN
C12N15/09, C07K14/435, C07K16/18, C07K19/00, C12N1/19, C12N1/21,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17-SEP-1997 US 60/059115,17-SEP-1997 US 60/059113,17-SEP-1997 US 60/059113,17-SEP-1997 US 17-SEP-1997 US 60/059113,17-SEP-1997 US 17-SEP-1997 US 60/059113,17-SEP-1997 US 17-SEP-1997 US 60/059266,15-OCT-1997 US 60/053486,24-OCT-1997 US 60/053486,24-OCT-1997 US 60/053486,24-OCT-1997 US 60/053120,24-OCT-1997 US 60/053120,24-OCT-1997 US 60/053120,24-OCT-1997 US 60/053120,24-OCT-1997 US 60/053120,24-OCT-1997 US 60/05349,28-OCT-1997 US 60/053549,28-OCT-1997 US 60/053549,28-OCT-1997 US 60/053549,28-OCT-1997 US 60/053549,28-OCT-1997 US 60/053744,29-OCT-1997 US 60/053744,29-OCT-1997 US 60/053744,29-OCT-1997 US 60/053740,29-OCT-1997 US 60/053740,24-NOV-1997 US 60/055770,24-NOV-1997 US 60/055770,24-NOV-1997 US 60/056770,24-NOV-1997 US 60/056770,24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2097
2743
2743
2743
                                                                                                                                                                                       Secreted and transmembrane polypeptides and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Location/Qualifiers
                                                                                                                                                                                                                               Patent: JP 2002238588-A 316 27-AUG-2002;
GENENTECH INC
                                                                                                                                                                                                                                                                          Homo mapiens (human)
JP 2002238588-A/316
27-AUG-2002
18-DEC-2001 UP 2001385315
17-SEP-1997 US 60/059115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (1-997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    US-10-812-620-2 (1-214) x BD173500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8.18e-70
774.00
79.07
66.51
65.65
JP 2002238588-A/316.
Homo sapiens (human)
Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        encoding the same FH Key FT source FT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C12N5/10
                                                                                                                                                                                                                 the same
                                                                                                                                                                 Yuan, J
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Alignment Scores:
Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        22
                                                                                                                                                                                                                                                                                 S S G S K
  KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               source
                                                                                                                  REFERENCE
AUTHORS
                                                                                                                                                                                                                                    JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     FEATURES
                                                                                                                                                                                       TITLE
                                                                                                                                                                                                                                                                                 COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BD173500 997 bp DNA linear PAT 18-FEB-2003
Secreted and transmembrane polypeptides and nucleic acids encoding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     883 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT 342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TCCTGGGCGTTAAAGTTTAAAGAACTGCTCAGCCATGGGGGGCTCACCTGGTGGTATCAAC 462
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ThrGlnGluGluGluGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |||:::
|163 CAAAIGTICTTAIGGACTGFTGCTGGGATCCCCAICCTAITTCTCAGTGCCTGTTTCAIC 222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAsp 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    180 AlaThrIleArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              acids encoding the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCAGATGTGTTGTGACATTTCGCATCTTTCAAACCTGTGATGAGAAAAAGTTTCAGCTA 282
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 MethanSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GinValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 41 ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        60 HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys 79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeu 99
                                                                                               (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               200 SerMetProTrplleCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            747
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         :::
AATTATTTCGGATTTGTGAAATGGTAGGAATAAATCCTTTGAAC
    ខ្ល
                                                                                                                                                                                                                                                                                                    997
1143
27
2
2
2
                                                                ce 1. .997 / vertical / organism='Homo sapiens
       transmembrane polypeptides and nucleic
                                                                                                                                                                                                                                                                                                  Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                 Location/Qualifiers
                                                                                                                                       1. .997
/organism="Homo sapiens"
/mol type="genomic DNA"
/db xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (1-997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BD173500
BD173500.1 GI:28414831
                                                                                                                                                                                                                                                                                                                                                                                                                                                               x BD173181
                                                                                                                                                                                                                                                                                               8.18e-70
774.00
79.07
66.51
65.65$
                                                                       source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US-10-812-620-2 (1-214)
                                                                                                                                                                                                                                                                                                                                     Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   the same.
                                                                                                                                                                                                                                                                               Alignment Scores:
    and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     463
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  643
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            703
                                                                                                                                         source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DEFINITION
                                                                                                                                                                                                                                                                                                    . No. :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACCESSION
VERSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BD173500
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 11
                                                                                                                    FEATURES
```

g ઠે

ઠ

8 8 셤 ₹ g ò g 8 셤 ò

Я

PI

DIANE PENNICA,

60/066364 60/066840

115990/09

60/063327

60/063542 60/063564 60/063738 60/063735 60/064103 60/065186 60/065186

20

셤

ò

М

8 6

a

ò

ద

ò

쉽

ò

ઠે

PI

g

8 8 8

ያ ያ

엄 õ рр

```
ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAsp 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             :::|||:::
TCCTGGGCGTTAAGTTTAAAGAACTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAAC 462
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                                                                                                                                                   A61P43/00,
C12P21/08, (C12N1/19,C12R1:645), (C12N1/21,C12R1:19), (C12N5/10,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrLeu 99
                                                                                                                                                                                                                                               JEAN YUAN
C12N15/09, A61K45/00, A61P1/00, A61P13/12, A61P17/00, A61P17/06,
                                                                                                                                                                                                                                                                                           A61P25/16, A61P25/28, A61P31/12, A61P35/00, C07K14/47, C07K16/18,
                                                                                                                                                                                                                                                                                                                      C12N1/19,C12N1/21,C12N5/10//A61K38/00,A61K39/395,A61K39/395,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     <u>accagargrerigicacarricgcarcrircaaaccrigigadaaaaagrircagcra</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MetAsnSerThrLysSerProAlaSerHisHhsThrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GlnValLeuSerTrpThr1leAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle
                                                                                                                                                                                                                                                                                                                                                                                          ပ္ပ
                                                                                                                                                                                                                        DIANE PENNICA
 60/063128
60/063327
60/063327
60/063327
60/0633384
60/063138
60/063133
60/064103
60/065186
60/065186
60/0665186
60/0665186
60/0665186
60/0665186
                                                                                                                                                                                                                                                                                                                                                                                                                                         /organism='Homo sapiens (human)'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WILLIAM I WOOD, AUSTIN L GURNEY, AUDREY GODDARD,
JIAN ZHENG,
    60/063045, 24-OCT-1997 UG
60/063549, 228-OCT-1997 UG
60/063550, 28-OCT-1997 UG
60/06354, 28-OCT-1997 UG
60/063734, 29-OCT-1997 UG
60/063704, 29-OCT-1997 UG
60/063704, 29-OCT-1997 UG
60/06315, 29-OCT-1997 UG
60/06315, 29-OCT-1997 UG
60/063804, 128-OVD-1997 UG
60/065846, 118-NOV-1997 UG
60/065846, 128-NOV-1997 UG
60/066120, 21-NOV-1997 UG
60/066772, 24-NOV-1997 UG
60/066772, 24-NOV-1997 UG
60/066772, 24-NOV-1997 UG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                     Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1. .997
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-812-620-2 (1-214) x BD175534 (1-997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8.18e-70
774.00
79.07%
66.51%
65.65%
                                                                                                                                                                                                                                                                                                                                                                                                        the same
 24.0CT-1997 US
28.0CT-1997 US
28.0CT-1997 US
28.0CT-1997 US
29.0CT-1997 US
29.0CT-1997 US
29.0CT-1997 US
29.0CT-1997 US
21.0CT-1997 US
22.0CT-1997 US
22.0CT-1997 US
23.0CT-1997 US
24.0CT-1997 US
                                                                                                                                                                                                                                                                                                                                                                                                       encoding
                                                                                                                                                                                                                                                                                A61P25/00,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                     표보보
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             283
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Alignment
                                                                                                                                                                                                                                                                                                                                                                                                                                                             FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BD175534 997 bp DNA linear PAT 18-MAR-2003 Secretory and transmembrane polypeptide and nucleic acid encoding the same.
                                                                                                                                                                                                           402
                                                                                                                                                                                                                                                                                                                                                                                                                                                          342
                                                                                                                                                                                                                                     100 ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAsp 119
                                                                                                                                                                                                                                                                 462
                                                                                                                                                                                                                                                                                                                                                                             582
                                                                                                                                                                                                                                                                                                                                                                                                       GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
                                                                                                                                                                                                                                                                                                                                                                                                                                  642
                            223 ACCAGATGTGTTGTGACATTTCGCATCTTTCAAACCTGTGATGAGAAAAAGTTTCAGCTA 282
                                                                                                                                                                                                                                                                                           ThrGlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                                                                                                                                                                                                                GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                            79
               40
                                                                                                                                                                                 CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrLeu 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Secretory and transmembrane polypeptide and nucleic acid encoding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PR
                                                                    ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro
                                                                                                                           60 HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys
                                                                                                                                            403 TCCTGGGCGTTAAGTTTTAAAGAACTGCTCCAGCCATGGGGGCTCACCTGGTGGTTATCAAC
                                                                                                                                                                                                                                                                                                              GGACTGTCAGACCAGGTTGTCGAGGGTCAGTGGGATGGGTGGAGGTGGACGCCACCTTTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                        GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           S 60/059184
60/059117 PR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Wood, W.I., Gurney, A.L., Goddard, A., Pennica, D., Zheng, J. and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        60/059117 PR
60/059121 PR
60/059263 PR
60/062125 PR
60/062285 PR
60/063127 PR
60/063121 PR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 200 SerMetProTrpileCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 US 60/059115,17-SEP-1997 US 60/059112,17-SEP-1997 US 60/059113,17-SEP-1997 US 60/059113,17-SEP-1997 US 60/05287,17-077-1997 US 60/052887,17-077-1997 US 60/0528142,44-077-1997 US 60/053120,24-077-1997 US 60/053120,24-077-1997 US
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Patent: JP 2002253280-A 316 10-SEP-2002;
GENENTECH INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens (human)
JP 2002253280-A/316
10-SEP-2002
18-DEC-2001 JP 2001385319
17-SEP-1997 US 60/059115
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BD175534.1 GI:29121232
JP 2002253280-A/316.
Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           80
80
80
80
80
80
80
80
80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OS Homo Bap
PN 10-SE0-22
PF 18-DEC-2
PF 18-DEC-2
PR 17-SEP-1997 U
17-SEP-1997 U
17-OCT-1997 U
17-OCT-1997 U
17-OCT-1997 U
17-OCT-1997 U
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BD175534
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                the same
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    fuan, J.
                                                                                                                                                      283
                                                                                                                                                                                                                                                                                           120
                                                                                                                                                                                                                                                                                                                                                                             523
                                                                                                                                                                                                                                                                                                                                                                                                        160
                                                                      41
                                                                                                                                                                                                                                                                                                                                                   140
                                                                                                                                                                                 89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BD175534
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      COMMENT
```

342

79

282

522 159 582 179

642

ઠ 움, 장

g ò g ò g ð 8

```
Ashkenazi, A., Botstein, D., Desnoyers, L., Eaton, D.L., Ferrara, N., Filvaroff, E., Fong, S., Gao, W.-Q., Gerber, H., Gerritesen, M. B., Goddard, A., Goddwari, P.J., Grimaldi, J.C., Gurney, A.L., Hillan, K.J., Kljavin, I.J., Mather, J.P., Pan, J., Paoni, N.F., Roy, M.A., Stewart, T.A., Tumas, D., Williams, P.M. and Wood, W.I.
                                                                                                                                                                                                                                                                                                                                                                                             20-FEB-2004
                                                                                                                                                                                                                                                         AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                       TCCTGGGCGTTAAAGTTTAAAGAACTGCTCAGCCATGGGGGGCTCACCTGGGTGGTTATCAAC
                                                                                          120 ThrGlnGluGluGluPheLeuPheArgThrLysProLysArgLysGluPheTyrile
                                                                                                                                              GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr
                                                                                                                                                                GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro
                                        Thr TrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAsp
                                                                                                            PAT
                                                                                                                                                                                                                                                                                                              214
                                                                                                                                                                                                                                                                                                                                       AATTAITITCGGATITGTGAAATGGTAGGAATAAATCCTTTGAAC 747
                                                                                                                                                                                                                                                                                                                                                                                            linear
                                                                                                                                                                                                                                                                                                            SerMetProTrplleCysGluMetProGluIleSerProLeuAsp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             the same
Patent: US 6664376-A 376 16-DEC-2003;
                                                                                                                                                                                                                                                                                                                                                                                            997 bp Di
US 6664376.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /organism="unknown"
/wol_type="genomic DNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-812-620-2 (1-214) x AR439278 (1-997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                          AR439278
Sequence 376 from patent
AR439278
                                                                                                                                                                                                                                                                                                                                                                                                                                 AR439278.1 GI:42665127
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8.18e-70
774.00
79.07
66.51
65.65
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Unclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Unknown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Alignment Scores:
               343
                                        100
                                                                 103
                                                                                                                                                140
                                                                                                                                                                           523
                                                                                                                                                                                                    160
                                                                                                                                                                                                                                                         180
                                                                                                                                                                                                                                                                                                              200
                                                                                                                                                                                                                                                                                                                                       703
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                      DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                RESULT 14
                                                                                                                                                                                                                                                                                                                                                                              AR439278
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                     ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                 VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORIGIN
                                                                                                               8
                                                                                                                                                                                                                          g
             8 8
                                                          g
                                                                                  ઠે
                                                                                                                                                                    g
                                                                                                                                                                                                ð
                                                                                                                                                                                                                                                                           ď
                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                               ò
                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                               Ashkenazi, A., Botstein, D., Desnoyers, L., Eaton, D.L., Ferrara, N., Fahkenazi, A., Botstein, D., Desnoyers, L., Eaton, D.L., Ferrara, N., Fildaroff, B., Fongi, S., Gao, W.-Q., Gerber, H., Gerritsen, M.E., Goddard, A., Godowski, P.J., Grimaldi, J.C., Gurney, A.L., Hillan, K.J., Kljavin, I.J., Mather, J.P., Pan, J., Paoni, N.F., Roy, M.A., Stewart, T.A., Tumas, D., Williams, P.M. and Wood, W.I.
                                                                                                                                                                                                                                                                                                            PAT 18-DEC-2003
                                                                                                                     GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
                                                                                                                                                642
                                                                                                                                                                        AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACCAGATGTGTTGTGACATTTCGCATCTTTCAAACCTGTGATGAGAAAAAGTTTCAGCTA 282
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ||||::
| CAAATGTTCTTATGGACTGTTGGTGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATC 222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CCTGAGAATTICACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT 342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      60 HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys 79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          80 CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrLeu 99
                         GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr
                                                                               ThrGlnGluGluGluDheLeuPheArgThrLysProLysArgLysGluPheTyrIle
                                                                                                                                                                                                                          SerMetProTrplleCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                            :::
AATTATTTTCGGATTTGTGAAATGGTAGGAATAAATCCTTTGAAC 747
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      997
27
27
2
2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length:
Matches:
Conservative:
Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Patent: US 6635468-A 376 21-OCT-2003
                                                                                                                                                                                                                                                                                                     997 bp 1
Sequence 376 from patent US 6635468.
AR410914.1 GI:40162414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /mol_type="genomic DNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US-10-812-620-2 (1-214) x AR410914 (1-997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /organism="unknown"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8.18e-70
774.00
79.07
66.51
65.65$
                                                                                                                                                                                                                                                                                                                                                                                         Unknown.
Unclassified.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                           Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Alignment Scores:
Pred. No.:
                                     463
                                                                140
                                                                                                                   160
                                                                                                                                            583
                                                                                                                                                                        180
                                                                                                                                                                                                                            200
                                                                                                                                                                                                                                                      703
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ᇽ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  41
           120
                                                                                          523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            223
                                                                                                                                                                                                   643
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         163
                                                                                                                                                                                                                                                                               RESULT 13
AR410914
LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                 ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .. No. .
                                                                                                                                                                                                                                                                                                                                                                                                                                AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORIGIN
```

59

원장

8 셤 ò g à g

ઠે

```
100
                                                                                                                           120
                                                                                                                                                            140
                                                                                                                                                                                           160
                                                                                                                                                                                                                                            643
                                                                                                                                                                                                                                                            200
                                                                                                                                                                            523
                                                                                                                                                                                                                                                                            703
                    8 6 8 6
                                                                                      8 8 8 8 8 8
                                                                                                                                                                                                        8 S
                                                                                                                                                                                                                                       ద
                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                     PAT 20-FEB-2004
                                582
                                                                                                                                                                                                  342
                                                                100 ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValVallleAsp 119
                                                                          ThrGlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                 GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                                                                  GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
                                                                                                                                                                                   642
                                                                                                                                                                                                                                                                                                                                                                             Secreted and transmembrane polypeptides and nucleic acids encoding
the same
                                                                                                                                                                                                                                                                                                                                            Unclassified.

( Dases 1 to 997)

Desnoyes,L., Goddard,A., Godowski,P.J., Gurney,A.L., Mather,J.P., Williams,P.M. and Wood,W.I.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ||||::
| CAAATGTTCTTATGGACTGTTGCTGGGATCCCATCCTATTTCTCAGTGCCTGTTTCATC 222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer 20
SerMetProTrp1leCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                           linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                              997
27 27
2 4 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length:
Matches:
Conservative:
Mismatches:
Indels:
Gaps:
                                                                                                                                                                                                                                                                                    7 bp DN
6686451.
                                                                                                                                                                                                                                                                                                                                                                                            Patent: US 6686451-A 376 03-FEB-2004;
                                                                                                                                                                                                                                                                                                                                                                                                                              DNA"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-812-620-2 (1-214) x AR473298 (1-997)
                                                                                                                                                                                                                                                                                                                                                                                                   Location/Qualifiers
1. .997
/organism="unknown"
/wol_type="genomic DN
                                                                                                                                                                                                                                                                                    997
US (
                                                                                                                                                                                                                                                                                    AR473298
Sequence 376 from patent
AR473298
AR473298.1 GI:42708673
                                                                                                                                                                                                                                                                                                                                                                                                                                                             8.18e-70
774.00
79.07%
66.51%
65.65%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                                                                                                                                                                                                                                                                                                                            Unknown
                                                                                                                                                                                                                                                                                                                                      Unknown
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Alignment Scores:
Pred. No.:
                                                                                                 120
                                                                                                                  463
                                                                                                                                  140
                                                                                                                                                   523
                                                                                                                                                                   160
                                                                                                                                                                                                                                    200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21
                                                                                  403
                                                                                                                                                                                                                                                                                                   ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                    LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                              Bource
                                                                                                                                                                                                                                                                                                                                                                                                                                                               ..
80
.
                                                                                                                                                                                                                                                                                                                                                    REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                   RESULT 15
AR473298
                                                                                                                                                                                                                                                                                                                                                                                            JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                     FEATURES
                                                                                                                                                                                                                                                                                                                                                                             TITLE
                                                                             6 6 6 6
                                                                                                                                              8 6 8
                                                                                                                                                                                                                 g
 ઠ
             셤
                                8 8 8
                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
```

```
282
                                                                             342
                                                                                                                                                                119
                                                                                                                                                                              ThrolngluglugluglupheleuPheArgThrLysProLysArgLysGluPheTyrlle 139
                                                                                                                                                                                                                                                522
                                                                                                                                                                                                                                                                          159
                                                                                                                                                                                                                                                                                                      582
                                                                                                                                                                                                                                                                                                                                 179
                                                                                                                                                                                                                                                                                                                                                           642
                                                                                                                                                                                                                                                                                                                                                                                     AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                                      79
              ThrTrpSerSerSerLeuLygAsnCygSerAspMetGlyAlaHisLeuValVallleAsp
                                                                                                                                                                                                                                                                                                                             GluSerLeuSerPheTrpAspalaGlyGluBroAsnAsnIleValLeuValGluAspCys
                                                                   283 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGGTTCAGAATTGT
ThrargCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro
                                                 HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys
                                                                                                                                                                                                                                        GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr
                                                                                                                                                                                                                                                                                          SerMetProTrpileCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AATTATTTTCGGATTTGTGAAATGGTAGGAATAAATCCTTTGAAC 747
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9, 2005, 15:27:36
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 completed: June
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                time : 4161 secs
                                                     9
                                                                                                                                                                                                                                                  463
                                                                                                                                                                                                                                                                                                                                                                                        180
41
8 6
```

Human sec Human sec Novel hum Novel hum

Human sec

CDNA enco Human sec Human sec CDNA enco Novel hum

Human sec Human sec Human sec

Human PRO Human PRO Human DNA Human cDN

Human sec Human sec Human cDN Novel hum Human sec Human sec Human sec

Adc78688 Aa45232 Aa45236 Aca60316 Aca60316 Aca05711 Aca05711 Ac620120 Ac620120 Ac62011 Ac62011 Ac62011 Ac62011 Ac62011 Ac6011 Ac6011 Ac6011 Ac61258 Ac6011 Ac61258 Ac61258 Ac61258 Ac61258 Ac61258 Ac61258 Ac61259 Ac61259 Ac61259 Ac61259 Ac61259 Ac61259 Ac61259 Ac61259 Ac613915

Human Human Human Human

Human Human Human Novel

Aca 97231 Aca 57694

Novel P Human s Human s Human s Human s

•

OM protein

Run on:

Total number Minimum DB e Maximum DB e

Searched:

```
Mincle, C-type lectin, antinflammatory, macrophage, inflammation, disorder, nuclear factor interleukin 6; NF-IL6; 88.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Murine cDNA encoding C-type lectin Mincle.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ALIGNMENTS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /*tag= a
/product= "Mincle"
/note= "C-type lectin"
                                                                                                                                                                             ACF19506
ACD21794
ACD25062
ACD25062
ACA71168
ACA71168
ACD18153
ACD18153
ACD18153
ACD18153
ACA88594
ACA71766
ACA71766
ACA71766
ACC81138
ACD17846
ACC81133
ACD17846
ACC81133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABX75552
ABX97755
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACA57694
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
124. .768
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AAF86349 standard; cDNA; 2517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            02-OCT-2000; 2000WO-JP006820
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               99JP-00293724
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
 \begin{array}{c} 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\ 0.0000\\
WO200127271-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15-OCT-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  23-JUL-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       19-APR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAF86349;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mouse;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           immune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mus sp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Key
 Command line parameters:

-MODEL=frame+ p2n.model -DEV=xlh
-Q=0021/USFTO spool/USI0812620/runat 07062005 124335 3234/app_query.fasta_1.391
-Q=00121/USFTO spool/USI0812620/runat 07062005 124335 3234/app_query.fasta_1.391
-Q=000EXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi
-LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCALIGN=200 -THR SCORE=pct -THR MAX=100 -THR MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFWT=ptc -NORM=ext - HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000
-USER=USI0812620 @CGN 1 1 644 @runat 07062005 124335 3234 -NCPU=6 -ICPU=3
-NO MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THERADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Aaf86349 Murine cD
Aaf81743 Human mem
Adf80738 Human hep
Adr41300 Human CD-
Aax52274 Protein P
                                                                                                                    9, 2005, 09:39:25; Search time 531 Seconds (without alignments) 2385.734 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Description
                                                                                                                                                                                                                           MNSTKSPASHHTERGCFKNS.....IPCFYSMPWICEMPEISPLD
                                                                                                                                                                                                                                                                                                                                                                                                                8780412
                GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
                                                                                      nucleic search, using frame_plus_p2n model
                                                                                                                                                                                                                                                                                                                                                                                                          of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                           4390206 segs, 2959870667 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SUMMARIES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAF86349
AAF81743
ADF90738
ADR41300
AAX52274
                                                                                                                                                                                                                                                                                Xgapop 10.0, Xgapext
Ygapop 10.0, Ygapext
Fgapop 6.0, Fgapext
Delop 6.0, Delext
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  geneseqn2002as:*
geneseqn2002bs:*
geneseqn2003as:*
geneseqn2003bs:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      geneseqn2003cs:*
geneseqn2003ds:*
geneseqn2004as:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            geneseqn2004bs:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               geneseqn2001as:*
geneseqn2001bs:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ü
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Geneseq_16Dec04:*
geneseqn1980s:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            geneseqn1990s:*
geneseqn2000s:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                 seq length: 0
seq length: 2000000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          4467.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       В
                                                                                                                                                                                            US-10-812-620-2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2517
968
976
990
990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length
                                                                                                                                                                                                                                                                   BLOSUM62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query
Match 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0
65.6
65.6
65.6
65.6
                                                                                                                                                                                            Title:
Perfect score:
Sequence:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score
                                                                                                                                                                                                                                                                   Scoring table:
```

Database

4 0 C 4 S

Result ģ

```
724 ATGCCTTGGATTTGTGAGATGCCAGAAATAAGTCCTCTGGAC 765
                                                                                                                                                                 membrane
                                                                                                                                                                                                                                                                                      WO200112662-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score:
Percent Similarity:
                                                                                                           12-JUN-2001
                                                                                                                                                                                                                                                              Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                      17-AUG-1999;
                                                                                                                                                                                                                                                                                                                                                                                     09-NOV-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Alignment Scores:
                                                                                                                                                                                                                                                                                                                 22-FEB-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Baughn MR,
                                                                                 AAF81743;
                                                                                                                                                                                                                                                                                                                                                                                                                                         Д,
                                                                                                                                                                                                                                                                                                                                                                                                                                         La]
                             RESULT 2
                                                        243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   543
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  723
                                                                                                                                                            This invention relates to a C-type lectin, termed Mincle, which is formed from a transcriptional target gene of nuclear factor interleukin 6 (NF-1L6). Mincle is a macrophage activating protein which can be used in the treatment of immune disorders, and inflammation. Compositions containing the protein have immunomodulatory and antiinflammatory activity. The present sequence represents murine cDNA encoding Mincle
                                                                                                                                                                                                                                                                                                                                                                                                                                            304 AGAAATATTAAGGAGCTTTCCTGCTACAGTGAGGCATCAGGTTCAGGTTCAAGAATTGCTGT 363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       121 GlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIleGly 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThrGlu 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCysAla 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyrSer 200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   L84 CAAGIGCICTCCTGGACGATAGCCGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValVallleAspThr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CTGACAGACCAGGTGGTGGAGGGTCAGTGGCAATGGGTGGATGATACACCTTTCACAGAG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   41 ThrargCysValValThrTyrArgSerSerGlnIleSerGlyGlnAsnLeuGlnProHis
                                                                                                                                                                                                                                                                                                                                                                                                                           MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ArgAsn1leLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCysCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GlnValLeuSerTrpThr1leAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              244 ACCAGATGTGTCGTAACATATCGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              664 ACCATAAGGGACTCTTCAAACTCCAGGAAGAACTGGAATGATATACCCTGTTTCTACAGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrLeuThr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            424 regreateagriraaagaarrecreagacareegegereaceregregrarregaeaca
                                                                                             New macrophage activating C-type lectin for the treatment of immune disorders and inflammation.
                                                                                                                                                                                                                                                           Sequence 2517 BP; 756 A; 533 C; 463 G; 765 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MetProTrp1]eCysGluMetProGlu1]eSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                    2517
214
0
0
0
                                                                                                                                                                                                                                                                                                                             Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                    Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                 (1-2517)
(NISC-) JAPAN SCI & TECHNOLOGY CORP.
                                                                                                                                    Claim 4; Fig 4; 60pp; Japanese.
                                                                                                                                                                                                                                                                                                                                                                                                US-10-812-620-2 (1-214) x AAF86349
                                                                                                                                                                                                                                                                                                   3.19e-115
1179.00
100.00%
100.00%
100.00%
                            Matsumoto M;
                                                  2001-273771/28
                                                                                                                                                                                                                                                                                                                                            Similarity:
                                                                  P-PSDB; AAB97225
                                                                                                                                                                                                                                                                                                                             Percent Similarity:
                                                                                                                                                                                                                                                                                      Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                           Н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  484
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        544
                         Akira S,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 191
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           201
                                                                                                                                                                                                                                                                                                                                          Best Local S.
Query Match:
```

ò 셤 g

à

g

ઠે

셤 ò g

ઠે

유 ઠે g ò d

ò

ద

ò

g

ò

```
AAFB1741 to AAFB1777 encode the human membrane associated proteins

(MEMAP) given in AAB74695 to AAB74731. MEMAP8 have cytostatic,

continifiammatory, anticonvulsant, immunosuppressive, antidiarrheic and

antiarteriosclerotic activities, which can be used in gene therapy.

Continity the decreased expression of functional MEMAPs and antagonists

Continity the decreased expression of functional MEMAPs and antagonists

Contexpression of functional MEMAP. These disorders include cell

Contexpression of functional MEMAP. These disorders include cell

Contexpression of functional MEMAP. These disorders include cell

Contexpression of functional MEMAP. These disorders include call

Contexpression of these disorders. Specific examples of these disorders

Contexpression of these disorders on the compounds which apporting the including antibodies and proteins and gastroinces.

Contexpression of these disorders or screen for compounds which apporting the including antibodies or observed to prepare transgenic

Contexpression of MEMAP protein and can be used to prepare transgenic

animals which can be studied to provide information concerning human

disease. Anti-MEMAP antibodies are useful in immunoassays for the

concerning the memaprocian and can be used as antagonists to treat or

prevent a disorder associated with MEMAP. Polymucleotides encoding MEMAP

con be delivered to target cells with genetic abnormalities with respect

con the expression of MEMAP to treat or prevent a disorder associated with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Isolated polypeptide with a human membrane associated protein sequence is useful for the diagnosis, prevention and treatment of cell proliferative, autoimmune/inflammatory, neurological and gastrointestinal disorders.
                                                                                                                                                                                                                                                                                                                                                                                           antiinflammatory; anticonvulsant; immunosuppressive; antidiarxheic; antiarteriosoclerotic; gene therapy; cell proliferative disorder; autoimmune disorder; inflammatory disorder; neurological disorder; gastrointestinal disorder; cancer; inflammation; atherosclerosis;
                                                                                                                                                                                                                                                                                                                                                  associated protein; MEMAP; diagnosis; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Burford N, Azimzai Y;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 968 BP; 314 A; 197 C; 205 G; 252 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                           Human membrane associated protein MEMAP-3 encoding cDNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        968
143
27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length:
Matches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bandman O,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         English.
ВЪ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Yue H, Tang YT, Bandm
R, Lu DAM, Patterson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14-AUG-2000; 2000WO-US022315.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        99US-0149641P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            99US-0164203P.
AAF81743 standard; cDNA; 968
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1.35e-72
774.00
79.07%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (INCY-) INCYTE GENOMICS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example; Page 151; 173pp;
                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              epilepsy; diarrhoea; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2001-168860/17.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        P-PSDB; AAB74697.
```

m

첮

(SUMU) SUMITOMO SEIYAKU

```
ThrTrpSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAsp 119
                                                                                                                                                                                                                                                                   :::|||:::
TCCTGGCGCTTAAGTTTAAAGAACTGCTCAGCCATGGGGGCTCACCTGGTGGTGATCAAC 518
                                                                                                                                                                                                                                                                                                                                              |||:::
| CAAATGTTCTTATGGACTGTTGCTGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATC 278
                                                                                                                                                                                      ThrGlnGluGluGluGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                                                                                                                                                                        GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
                                                                                                                                                                                                                                                                                                                                                                                      ACCAGATGTGTTGTGACATTTCGCATCTTTCAAACCTGTGAGAAAAAAGTTTCAGCTA 338
                                                                                                                                                                                                                                                                                                                                    GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                                                                                                                                                                                                                                                                                                               AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                              GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle 40
                                                                                                                                    ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                           79
                                                                                                                                                                                                                 CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrLeu 99
                                                       MetaenSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                         HisArgAsn11eLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           marker; chronic hepatitis; liver cirrhosis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      SerMetProTrplleCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  :::
AATTATTTTCGGATTTGTGAAATGGTAGGAATAAATCCTTTGAAC
 2 2 43
Mismatches:
Indels:
Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         hepatic-fibrosis disease marker SEQ ID
                                       (1-968)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ВР
                                       x AAF81743
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11-MAR-2002; 2002JP-00065013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11-MAR-2002; 2002JP-00065013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DNA; 976
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
66.51$
65.65$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Hepatic fibrosis; marker;
hepatic carcinoma; human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADF90738 standard;
                                      (1-214)
 Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JP2003259877-A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               16-SEP-2003
                                      US-10-812-620-2
                                                        н
                                                                                                                 219
                                                                                                                                     41
                                                                                                                                                                                             339
                                                                                                                                                                                                                                                                                                                                                                                            639
                                                                                                                                                                                                                                                                                                                                                                                                                180
                                                                                               21
                                                                                                                                                        279
                                                                                                                                                                           9
                                                                                                                                                                                                                  80
                                                                                                                                                                                                                                    399
                                                                                                                                                                                                                                                        100
                                                                                                                                                                                                                                                                          459
                                                                                                                                                                                                                                                                                             120
                                                                                                                                                                                                                                                                                                                 519
                                                                                                                                                                                                                                                                                                                                    140
                                                                                                                                                                                                                                                                                                                                                       579
                                                                                                                                                                                                                                                                                                                                                                           160
                                                                                                                                                                                                                                                                                                                                                                                                                                    669
                                                                                                                                                                                                                                                                                                                                                                                                                                                       200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         759
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADF90738,
           ery Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human
 Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ношо
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8 6 6 6
                                                        ઠે
                                                                         유
                                                                                              ઠ
                                                                                                            g
                                                                                                                                                                                                          8 & 8 &
                                                                                                                                                                                                                                                                                       $ B $ B $ B $
                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
```

```
The present invention relates to hepatic-fibrosis disease markers (APP90323-ADF90917). The RAPP0532-ADF90917). The RAPP0532-ADF90917). The sequences are useful for detecting and treating hepatic fibrosis caused by alcohol consumption, virus infection, etc., and the associated chronic hepaticis, etc. leading to liver cirrhosis and hepatic carcinoma. The markers allow the cause of hepatic fibrosis to be clarified (diagnostic precision), so more suitable treatments can be developed and given.
                                                                                                                                                                                                                                                                                                                                                                                                   218
                                                                                                                                                                                                                                                                                                                                                                                                                                                    278
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       518
                                             Hepatic fibrosis disease markers comprising polynucleotides or antibodies, useful for improved diagnosis, screening and developing drugs to treat hepatitis, to control cirrhosis and carcinoma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    338
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     398
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     458
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          758
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       638
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         698
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                                                            40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              53
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              66
                                                                                                                                                                                                                                                                                                                                                                            20
                                                                                                                                                                                                                                                                                                                                                                           CAAATGTTCTTATGGACTGTTGCTGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ThrargCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ThrTrpSerSerSerLeuLysAanCysSerAspMetGlyAlaHisLeuValValIleAsp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            :::|||:::
TCCTGGGCGTTAAGGTTTAAAGAACTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                HisArghanlleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CysProLeuAsnTrpLysH1sTyrGlnSerSerCysTyrPhePheSerThrThrLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGTCCATTGAACTGGGAATATTTTCAATCCAGCTGCTACTTCTTTTTTTAACTGACACCCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr
                                                                                                                                                                                                                                                                                                                                                                                                                            GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ThrGlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrlle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GGACTGTCAGACCAGGTTGTGTTTTGACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 *** AATTATTCGGATTTGTGAAATGGTAGGAATAAATCCTTTGAAC 803
                                                                                                                                                                                                                        C; 206 G; 256 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SerMetProTrplleCysGluMetProGluileSerProLeuAsp 214
                                                                                                                                                                                                                                                             97
24
24
24
37
37
37
43
                                                                                                                                                                                                                                                            Length:
Matches:
Conservative:
Mismatches:
Indels:
Gaps:
                                                                                               Claim 1; SEQ ID NO 200; 313pp; Japanese
                                                                                                                                                                                                                                                                                                                                                   US-10-812-620-2 (1-214) x ADF90738 (1-976)
                                                                                                                                                                                                                                                                                                                                                                                                                                          ::
                                                                                                                                                                                                                                                         1.36e-72
774.00
79.07%
66.51%
65.65%
                                                                                                                                                                                                                         Sequence 976 BP; 317 A; 197
                       WPI; 2003-821598/77
                                                                                                                                                                                                                                                                                   Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                  Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                            21
                                                                                                                                                                                                                                                                                                                                                                                                                                                     219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       339
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       399
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       459
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        519
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         579
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           669
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             759
                                                                                                                                                                                                                                                                                                              Query Match:
DB:
                                                                                                                                                                                                                                                                ..
No..
8X6X5CX8XXPPPXXXX
8XCCCCCCCX
                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          8 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 .유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                           ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ·8
```

```
326 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT 385
                                                                                                                                                             ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAsp 119
                                                                                                                                                                                                                                                                                      ThrolngluglugluglupheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                                                                                                                                                                                                                           GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                                                                                                                                                                                                                                                                                  AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Secreted protein; transmembrane protein; human; enterocolitis; Zollinger-Ellison syndrome; gastrointestinal ulceration; congenital microvillus atrophy; skin disease; cell growth; abnormal keratinocyte differentiation; psoriasis; epithelial cancer; Parkinson's disease; Alzheimer's disease; Als; neuropathy; fibromodulin; dermal scarring; Usher Syndrome; Atrophia areata; anti-thrombotic; wound healing; tissue repair; sg.
                                                                                                                                          CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeu 99
ThrargCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                                                     HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                     GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SerMetProTrpileCysGluMetProGluileSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AATTATTTTCGGATTTGTGAATGGTAGGAATAAATCCTTTGAAC 790
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Protein PRO244 cDNA clone DNA35668-1171.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ВЪ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9705-0059119P
9705-0059121P
9705-0059122P
9705-0059263P
9705-0059266P
9705-0052266P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          97US-0059113P.
97US-0059115P.
97US-0059117P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        98WO-US019330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAX52274 standard; DNA; 997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              25-JUN-1999 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17-SEP-1997;
17-SEP-1997;
18-SEP-1997;
18-SEP-1997;
15-OCT-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO9914328-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        16-SEP-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17-SEP-1997;
17-SEP-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       25-MAR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               17-SEP-1997
                                                                                                                                                                                                                 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AAX52274;
                                                                       9
                                                                                                                                                                                                                                                                                        120
                                                                                                                                                                                                                                                                                                                                                             140
                                                                                                                                                                                                                                                                                                                                                                                                 999
                                                                                                                                                                                                                                                                                                                                                                                                                                    160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      626
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           989
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  746
                                                                                                                                            80
                                                                                                                                                                                                                                                                                                                           206
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAX5227
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                   ઠે
                                                                                                   유
                                                                                                                                            ઠે
                                                                                                                                                                        셤
                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                 셤
                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              g
                                                                                                                                                                                          Human; CD-like molecule; cluster of differentiation; diagnosis;

prevention; immune disorder; immunodeficiency; autoimmune disorder;

prevention; immune disorder; immunodeficiency; autoimmune disorder;

blood-related disorder; haperpoliferative disorder; cancer; tumour;

thrombolytic disorder; neovascular disorder; respiratory disorder;

magiogenic disorder; neovascularisation; neurological disorder;

angiogenic disorder; reproductive system disorder; infectious disease;

modocrine disorder; reproductive system disorder; infectious disease;

chackeraxis; gene therapy; antibody therapy; drug targeting;

chemotraxis; gene therapy; antibody therapy; drug targeting;

chromosome mapping; forensic analysis; immunophenotyping; cytostatic;

haemostetic; tranquiliser; vulnerary; antiinflammatory; nephrotropic;

cardiant; antiallergic; auti-HIV; antirheumatic; antiarthic;

antipsoriatic; immunosuppressive; vasotropic; neuroprotective;

mantibyzoid; thyromimetic; gynaecological; virucide; hepatotropic;

mantibyzoid; thyromimetic; gynaecological; virucide; hepatotropic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Novel polynucleotides and polypeptides useful for treating, preventing or ameliorating cardiovascular, renal, neurovascular, and autoimmune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21 GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to 167 novel human CD (cluster of differentiation) like molecules (ADR41388-ADR41563) and to cDNAs encoding them (segid:11}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BP; 342 A; 192 C; 206 G; 249 T; 0 U; 1 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9412422
9473
9473
                                                                                                                                                           Human CD-like molecule HYAAM43 cDNA, SEQ ID NO:99.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 4; SEQ ID NO 99; 1243pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US-10-812-620-2 (1-214) x ADR41300 (1-990)
                                                    ADR41300 standard; cDNA; 990 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 25-SEP-2001; 2001WO-US029838
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26-SEP-2000; 2000US-0235484P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (HUMA-) HUMAN GENOME SCI INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1.39e-72
774.00
79.07%
66.51%
65.65%
                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2002-405050/43.
P-PSDB; ADR41476.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Birse CE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO200226930-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Alignment Scores:
                                                                                                                           07-OCT-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               04-APR-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Rosen CA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     disorders.
                                                                                       ADR41300;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo
                                     ADR41300
                  RESULT
```

임 ઠે

179

```
970S-0062287P.
970S-0063486P.
970S-0063816P.
970S-0063120P.
970S-0063121P.
970S-0063121P.
970S-0063124P.
970S-0063124P.
970S-006354P.
970S-006354P.
970S-006354P.
970S-006354P.
970S-006354P.
970S-0063732P.
970S-0063732P.
970S-0063732P.
970S-0063733P.
970S-0063733P.
970S-0063733P.
970S-0063732P.
970S-0063733P.
970S-0063732P.
970S-0063732P.
970S-0063733P.
970S-0063733P.
970S-0063732P.
970S-0063733P.
970S-0063733P.
                                                                                                                                                                                                      97US-0066840P
                                                                                                                                                                                                                 (GETH ) GENENTECH INC.
                    24-0CT-1997;
24-0CT-1997;
24-0CT-1997;
24-0CT-1997;
27-0CT-1997;
28-0CT-1997;
28-0CT-1997;
28-0CT-1997;
28-0CT-1997;
                                                                                   3-OCT-1997;
                                                                                             -OCT-1997;
                                                                                                                        29-OCT-1997
                                                                                                             OCT-1997
                                                                                                                   OCT-1997
                                                                                                                                                                                 24-NOV-1997
                                                                                                         -OCT-1997
                                                                                                                                   31-OCT-1997
                                                                                                                                        3-NOV-1997
                                                                                                                                             07-NOV-1997
                                                                                                                                                   L2-NOV-1997
                                                                                                                                                             18-NOV-1997
                                                                                                                                                                             24-NOV-1997
                                                                                                                                                                                           24-NOV-1997
24-NOV-1997
```

Wood WI, Gurney AL, Goddard A, Pennica D, Chen J, Yuan J;

WPI; 1999-229533/19. P-PSDB; AAY13403.

New isolated human genes and polypeptides used in, e.g. treatment of gastrointestinal ulceration.

Claim 2; Fig 121; 320pp; English.

AXX52213-74 encode secreted and transmembrane human proteins, and are obtained from cDNA libraries, prepared from fetal lung, fetal kidney, fetal brain, fetal liver and fetal retina. The encoded polypeptides have specific uses based on their homology to known polypeptides, e.g. PRO211 and PRO217 can be used for disorders associated with the preservation and maintenance of gastrointestinal mucosa and the repair of acute and chronic mucosal lesions (e.g. enterocolitis, Zollinger-Ellison syndrome, gastrointestinal ulceration and congenital microvillus atrophy), skin diseases associated with abnormal keratinocyte differentiation (e.g. psoriatis, epithelial cancers such as lung squamous cell carcinoma of the vulva and gliomas), potent effects on cell growth and development, diseases related to growth or survival of nerve cells including Parkinson's disease, Alzheimer's disease, ALS, neuropathies or cancer. PRO265 can be used as a target for anti-tumor drugs. PRO269 can be used as a target for anti-tumor drugs. PRO269 can be used as anti-thrombotic agent; PRO287 polypeptides and portions may have therapeutic applications in wound healing and tissue repair; PRO317 can be used for treating problems of the kidney, uterus, endometrium, blood vessels, or related tissue, e.g. in the heart of genital tract

., n		
	cores ilariu Simila	
_	US-10-812-620-2 (1-214) x AAX52274 (1-997)	
Ü	ω-	20
П	Db 106 ATGAATTCATCTAAACATCTGAAACACAATGCACAGAGAGAG	162
•	Qy 21 GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCygPheIle	40
1-4	Db 163 CAAATGTTCTTATGGACTGTTGCTGGGATCCCCCATCCTATTTCTCAGTGCCTGTTTCATC	222
•	Qy 41 ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGlnAsnLeuGlnPro	53
1	Db 223 ACCAGATGTGTGTGTTTTCGCATCTTTCAAACCTGTGATGAGAAAAAGTTTCAGCTA	282
•	Oy 60 HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys	79
ш	Db 283 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGGTCAGAATTGT	342
•	Qy 80 CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeu	66
ч	Db 343 TGTCCATTGAACTGGGAATATTTTCAATCCAGCTGCTACTTTTTTTT	402
J	Oy 100 ThrTrpSerSerSerSerLeuLy8AsnCysSerAspMetGlyAlaHisLeuValVallleAsp	119
П	Db 403 TCCTGGGCGTTAAGTTTAAAGAACTGCTCAGGCGGGCTCACCTGGTGGTTATCAAC	462
J	Qy 120 ThrGlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle	139
_	Db 463 TCACAGGAGGAGCAGGAATTCCTTCCTACAAAAACCTAAAATGAGAGAGTTTTTTATT	522
•	Qy 140 GlyLeuThrAspGlnValValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr	159
ı	Db 523 GGACTGTCAGACCAGGTTGTCGAGGGTCAGTGGCAATGGGTGGACGGCACACTTTGACA	582
3	Qy 160 GluSerLeuSerPheTrpAspAlaGlyGluBroAsnAsnIleValLeuValGluAspCys	179
u	Db 583 AAGTCTCTGAGCTTCTGGGATGTAGGGGAGCCCAACAACATAGCTACCCTGGAGGACTGT	642
9	Qy 180 AlaThrIleArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr	199
-	Db 643 GCCACCATGAGAGCTCTTCAAACCCAAGGCAAAATTGGAATGATGTAACCTGTTTCCTC	702
•	Qy 200 SerMetProTrplleCysGluMetProGlulleSerProLeuAsp 214	
ш	Db 703 AATTATTTTCGGATTTGTGAAATGGTAGGAATAAATCCTTTGAAC 747	
щ а	RESULT 6	
, >	3	
~ F4, 7	AA AC ADC78688;	
, LJ >	AA DT 01-JAN-2004 (first entry)	
, LJ >	DE Human PRO244 cDNA.	
, 24, 2		ë
4,24,1		
14 (II4)	antiarteriosclerotic; cardiant; antidiabetic; cerebroprofective; thrombolytic; immunomodulator; enterocolitis; Zollinger-Ellison syni	ile;
	KW gastrointestinal ulceration; psoriasis; cancer; Parkinson's disease; KW Alzheimer's; ALS; neuropathy; dermal scarring; wound healing;	

159 582 642

ø

```
GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
                                                                                                                                                                                                                                                                                                                                                                                   AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                                                Human; PRO; dermatological; antipsoriatic; cytostatic; antiinflammatory; antiparkinsonian nootropic; neuroprotective; vulnerary; cardiant; antiangiogenic; vasotropic; antianthmatic; antiheumatic; cancer; antiarthritic; antiinfertility; antidabetic; antiviral; diabetes; ophthalmological; gene therapy; skin disease; gastrointestinal disorder;
                               ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAsp
                                                                                               ThrGlnGluGluGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle
                                                                                                                                                                                                                                                                                                                   SESTIMENT OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SESTION OF THE SEST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ferrara N;
ME, Goddard A;
Kljavin IJ;
Tumas D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SerMetProTrplleCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                :::
AATTATTTTCGGATTTGTGAAATGGTAGGAATAAATCCTTTGAAC 747
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          I, Eaton DL,
I, Gerritsen M
Hillan KJ, K
Stewart TA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ashkenazi AJ, Botstein D, Desnoyers L, 1
Filvaroff E, Fong S, Gao W, Gerber H, 0
Godowski PJ, Grimaldi CJ, Gurney AL, Hii
Mather JP, Pan J, Paoni NF, Roy MA, St.
Williams PM, Wood WI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       99WO-US02856
99WO-US028565.
99WO-US03095.
99WO-US0309911.
99WO-US0309999.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  99US-0143048P.
99US-0145698P.
99US-0146222P.
99WO-US020594.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      99WO-US021090.
99WO-US021547.
99WO-US023089.
99WO-US028214.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AAF72432 standard; cDNA; 997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           22-FEB-2000; 2000WO-US004414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ischaemia; inflammation; ss.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    24-APR-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human PRO244 cDNA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO200104311-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      15-SEP-1999;
15-SEP-1999;
05-OCT-1999;
29-NOV-1999;
30-NOV-1999;
02-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  05-JAN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18-JAN-2001.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          08-SEP-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             16-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       02-DEC-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20-DEC-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAF72432;
                                                 403
                                                                                               120
                                                                                                                                              463
                                                                                                                                                                                          140
                                                                                                                                                                                                                                         523
                                                                                                                                                                                                                                                                                        160
                                                                                                                                                                                                                                                                                                                                      583
                                                                                                                                                                                                                                                                                                                                                                                   180
                                                                                                                                                                                                                                                                                                                                                                                                                                 643
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               703
    100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT
                                  g
                                                                                             Š
                                                                                                                                  g
                                                                                                                                                                                          ò
                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                        ò
                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to a novel nucleic acid encoding a PRO polypeptide. The polypeptides and polynucleotides of the invention may be useful as research tools and as therapeutics for treating entercolitis, Zollinger-Blison syndrome, gastrointestinal ulceration, psoriasis, cancer, Parkinson's disease, Alzheimer's disease, AlS, neuropathies, dermal scarring and wound healing, nerve repair, thrombosis, bone and/or cartilage formation, angiogenesis, asthma, rheumatoid archritis, multiple sclerosis, inflammatory disorders, atherosclerosis, cardiac injury, infertility, premature aging, AlDS, diabetes compilcations and stroke. The molecules may also be utilised during gene therapy procedures and transgenic animal production. The current sequence is that of the human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  nucleic acids encoding secreted and transmembrane polypeptides with ogy, e.g. to growth and cancer-associated antigens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             106 AIGAATITCAICTAAAICAICTGAAACACACAAIGCACAGAGAGAGAGGGTGCTIC---ICTICC 162
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   60 HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys 79
nerve repair; thrombosis; bone; cartilage formation; angiogenesis; asthma: rheumatory disorder; atherosclerosis; cardiac injury; infertility; premature aging; AIDS; diabetes; stroke; gene therapy; transgenic; PRO; human; ss; gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MetAsnSerThrLysSerProAlaSerHisHisHhrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ccreagaartrcacagagcrcrccrccracaartarggarcaggrrcagrcaagaarrgr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle
                                                                                                                                                                                                                                                                                                                                                                                                           Wood WI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                           'n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      997
143
27
2
2
2
                                                                                                                                                                                                                                                                                                                                                                                                           Pennica
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 997 BP; 376 A; 189 C; 200 G; 232 T;
                                                                                                                                                                                                                                                                                                                                                                                                           χ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                           Hillan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 2; SEQ ID NO 376; 355pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      US-10-812-620-2 (1-214) x ADC78688 (1-997)
                                                                                                                                                                                                                                                                                                                                                                                                           Gurney AL,
                                                                                                                                                                                                                                                                                                              98WO-US019330
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1.41e-72
774.00
79.07$
66.51$
65.65$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRO cDNA of the invention.
                                                                                                                                                                                                                                                                                                                                                            (GETH ) GENENTECH INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2000-271434/23.
                                                                                                                                                                                                                                                                                                                                                                                                           Goddard A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2000-271434/
P-PSDB; ADC78689.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             homology, e.g.
                                                                                                                                                                  WO200015796-A2
                                                                                                                        Homo sapiens.
                                                                                                                                                                                                                                                                                                              16-SEP-1998;
                                                                                                                                                                                                                                                                 15-SEP-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Alignment Scores:
                                                                                                                                                                                                                23-MAR-2000.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   80
                                                                                                                                                                                                                                                                                                                                                                                                         Chen J,
Yuan J;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ..
90
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Novel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score:
```

ઠે 셤 ઠે 셤 δ 요 ò g ò

```
18-DEC-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (GETH ) GENENTECH INC
                                                                                                                                                                                                                                                                                                                                                                   WO200168848-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21-MAR-2000;
21-MAR-2000;
28-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               11-APR-2000;
11-APR-2000;
18-APR-2000;
                                                                                                                                                                                                                                                                                                                                       sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           29-MAR-2000;
29-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      30-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     04-APR-2000;
11-APR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11-APR-2000;
11-APR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .8-APR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   21-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              25-APR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          5-APR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          25-APR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         03-MAY-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30-MAY-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 05-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                               20-SEP-2001
                                                                                                                                                    AAS45936;
                                                                                                                                                                                                                                                                                                                                       Ношо
                                                                                                        AAS4593
                                                                                         RESULT
                                                                                                                                      엄
                               ò
                                             the
                                                                                                                                              The present sequence is one of sixty one nucleic acids encoding novel secreted and transmembrane PRO polypeptides. The PRO polypeptides are useful for treating skin diseases (e.g. psoriasis), cancers (e.g. lung squamous cell carcinoma), gastrointestinal disorders (e.g. enterocolitis), neurodegenerative diseases (e.g. Alzheimer's disease, enterocolitis), neurodegenerative diseases (e.g. Alzheimer's disease, endometrial bleeding angiogenesis, ischaemias such as coronary ischaemia, atherosclerosis), inflammatory disorders (e.g. aathma, rheumatoid arthritis, multiple sclerosis), infertility, AlDS and diabetes and retinal disorders such as retinitis pigmentosum. The PRO nucleic acids have applications in molecular biology, including use as hybridization probes, and in chromosome and gene mapping
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |||:::
|CAAATGTTCTTATGGACTGTTGCTGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATC 222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TGTCCATTGAACTGGGAATATTTTCAATCCAGCTGCTACTTCTTTTTTTACTGACACCATT 402
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAsp 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             :::|||:::
TCCTGGGCGTTAAGTTTAAAGAACTGCTCAGCCATGGGGGGCTCACCTGGTGGTTATCAAC 462
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ThrGlnGluGluGluGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     180 AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACCAGATGTGTGTGACATTTCGCATCTTTCAAACCTGTGATGAGAAAAAGTTTCAGCTA 282
                                           Sixty one nucleic acids encoding PRO polypeptides which are useful in the treatment of skin diseases (e.g. psoriasis), cancers (e.g. lung squamous cell carcinoma) and neurodegenerative diseases (e.g. Alzheimer's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheile 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeu 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      283 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            60 HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 997 BP; 376 A; 189 C; 200 G; 232 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                               997
143
27
27
2
2
                                                                                                                                                                                                                                                                                                                                                                                             Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (1-997)
                                                                                                                     Claim 2; Fig 121; 393pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-812-620-2 (1-214) x AAF72432
                                                                                                                                                                                                                                                                                                                                                                                          1.41e-72
774.00
79.07%
66.51%
65.65%
2001-081051/09
                                                                                                                                                                                                                                                                                                                                                                                                                           Percent Similarity:
Best Local Similarity:
              P-PSDB; AAB80271
                                                                                                                                                                                                                                                                                                                                                                                 Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Н
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                901
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   463
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            163
                                                                                       disease)
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match:
```

g

8 셤 8 셤

8 셤 8 엄 Š

ò

g ∂ 셤 요 ò

ઠે

```
PRO polypeptide, mammal; tumour; cancer; human; cattle; horse; sheep; ss; bdog; cat; pig; goat; rabbit; tumour necrosis factor alpha; TNF-alpha; blood; chondrocyte cell; cell proliferation; cell differentiation; colon; adrenal; lung; breast; prostate; rectum; cervix; liver; genetic disorder; PCR primer.
GCCACCATGAGAGACTCTTCAAACCCAAGGCAAAATTGGAATGATGTAACCTGTTTCCTC 702
                                                               200 SerMetProTrpIleCysGluMetProGluIleSerProLeuAsp
                                                                                                                                                                                                                                                                                                Human DNA encoding PRO polypeptide seguence #12
                                                                                                                                                                    BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2000WO-US005841.
2000US-0187202P
2000US-0189320P
2000US-0189328
2000WG-US005884
2000US-01908884
2000US-0191007P
2000US-0191048P
2000US-0191048P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2000US-0194449P
2000US-0195975P
2000US-019600P
2000US-019600P
2000US-0196630P
2000US-0196630P
2000US-019863EP
2000US-019858EP
2000US-019858EP
2000US-0199560P
2000US-0199560P
                                                                                                                                                                    AAS45936 standard; cDNA; 997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2000WO-US015264.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28-FEB-2001; 2001WO-US006520
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2000WO-US014941
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2000WO-US020710
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2000US-00644848
2000WO-US023328
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2000WO-US034956
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2000WO-US032678
```

```
9705-0062287P
9705-0063484P
9705-0063045P
9705-0063120P
9705-00631212P
9705-00631212P
9705-0063123P
9705-0063323P
9705-0063324P
9705-0063542P
9705-0063542P
9705-0063544P
9705-0063544P
9705-0063544P
9705-0063544P
9705-0063544P
9705-0063544P
9705-0063544P
9705-0063544P
9705-0063744P
9705-0063744P
9705-0063744P
9705-0063744P
9705-0063744P
9705-0063744P
                                                                                                                                                                                                                                                                                                                                                                                                                           970S-0059115P.
970S-0059117P.
970S-0059121P.
970S-0059122P.
970S-0059263P.
970S-0059266P.
970S-0059266P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            97US-0064103P.
97US-0064248P.
97US-0064809P.
97US-0065186P.
                                                                                                                                                                              ACA60316 standard; cDNA; 997
                                                                                                                                                                                                                                                                                                                                                                                          11-JUL-2001; 2001US-00904011
                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                          US2003003530-A1.
                                                                                                                                                                                                                                                                                                                    Homo sapiens,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28-0CT-1997;
28-0CT-1997;
28-0CT-1997;
29-0CT-1997;
29-0CT-1997;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          15-0CT-1997;
17-0CT-1997;
24-0CT-1997;
24-0CT-1997;
24-0CT-1997;
24-0CT-1997;
24-0CT-1997;
24-0CT-1997;
24-0CT-1997;
24-0CT-1997;
24-0CT-1997;
28-0CT-1997;
28-0CT-1997;
                                                                                                                                                                                                                             12-JUN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        29-OCT-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             29-OCT-1997
29-OCT-1997
                                                                                                                                                                                                                                                                                                                                                                  02-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              17-SEP-1997
17-SEP-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18-SEP-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 12-NOV-1997
                                                                                                                                                                                                                                                                                                                                                                                                                  17-SEP-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                      17-SEP-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  17-SEP-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18-SEP-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    31-OCT-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                         17-SEP-1997
                                                                                                                                                                                                        ACA60316;
       160
                                                        180
                                                                               643
                                                                                                       200
                                                                                                                                                                    ACA6031
                                                                                                                                                       RESULT
                                                                                                                                                                                 g
                                                        ò
                                                                             셤
                                                                                                       ò
                                                                                                                              셤
                                                                                                                                                 Sequences AAS45925-AAS46231 represent DNA molecules encoding and PCR primers for PRO polypeptides of the invention. The sequences of the invention can be used to detect the presence of a tumour in a mammal by comparing the level of expression of a PRO polypeptide in a test sample of cells from the animal and a control sample of normal cells, whereby a comparing the level of expression in the test sample indicates the presence of a tumour in the mammal. Mammals include dogs, cats, cattle, horses, sheep, pigs, goats and rabbits but are preferably human. The polypeptides can be used to stimulate tumour necrosis factor (TNF) alpha release from human contacted with it. A specific polypeptide can be used to stimulate the proliferation or differentiation of chondrocyte cells. The PRO proteins can be used to determine the presence of tumours and also can susceptibility to tumour development, particularly adrenal, lung, colon, breast, prostate, rectal, cervical, or liver tumours, in mammalian choses, prostate, rectal, cervical, or liver tumours, in mammalian constitution analysis of individuals with genetic disorders
                                                                                           t
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       582
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              283 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT 342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAsp 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     403 rccresecerraagriraaagaacrecresecearesesercaccreseresrareae 462
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ThrGlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TCACAGGAGGAGCAGGAATTCCTTTCCTACAAGAACCTAAAATGAGAGGTTTTTTATT 522
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheile 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrLeu 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                             Novel nucleic acids encoding PRO polypeptides, used to diagnose the presence of tumors, such as prostate and breast tumors, in mammals and screen for modulators of the compounds.
       Gurney AL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        60 HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Godowski PJ,
                                                                                                                                                                                                                                                                                                                                                                 Sequence 997 BP; 376 A; 189 C; 200 G; 232 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                    997
27
27
20
20
20
20
Goddard A, Gogo--- wr. Zhang Z;
                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                    Length:
Matches:
   J. Godwi. 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     US-10-812-620-2 (1-214) x AAS45936 (1-997)
                                                                                                                              Claim 2; Fig 23; 774pp; English.
     , Desnoyers L
Watanabe CK,
                                                                                                                                                                                                                                                                                                                                                                                                    1.41e-72
774.00
79.07%
66.51%
65.65%
                                        WPI; 2001-602746/68.
      Chen J,
                Smith V,
                                                                                                                                                                                                                                                                                                                                                                                                                                        Best Local Similarity:
                                                      P-PSDB; AAU29035
                                                                                                                                                                                                                                                                                                                                                                                                                             Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                         Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               41
      Baker KP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       463
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               140
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match:
                   Pan J,
                                                                                                                                                                                                                                                                                                                                                                                                      No.:
      ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
```

```
2000WO-US00219.
2000WO-US003565.
2000WO-US004414.
2000WO-US005004.
97US-0065846P.
97US-0065693P.
97US-0066120P.
97US-0066453P.
97US-0066466P.
97US-0066711P.
97US-0066770P.
                                                          98WO-US018824.
98WO-US019177.
98WO-US019330.
98WO-US019437.
                                                                                     99WO-US025108.
99WO-US020594.
99WO-US020944.
                                                                                                        99WO-US021090.
99WO-US021547.
99WO-US023089.
99WO-US028214.
                                                                                                                                                99WO-US028564.
99WO-US028565.
99WO-US030095.
99WO-US030911.
                                                                                                                                   99WO-US028313.
99WO-US028301.
                                                                                                                                                                           030999
                                                                                                                                                                                                            2000WO-US005841
                                                                                                                                                                                                                   2000WO-US007377
                                                                                                                                                                                                                                2000WO-US014042
                                                                                                                                                                                                                                     2000WO-US015264
                                                                                                                                                                           SU-OW66
                                                                                                                                                                                                          02-MAR-2000;
20-MAR-2000;
30-MAR-2000;
22-MAY-2000;
                                                                                                                                                                                05-JAN-2000;
11-FEB-2000;
22-FEB-2000;
24-FEB-2000;
                         24 - NOV - 1997;
24 - NOV - 1997;
24 - NOV - 1997;
24 - NOV - 1997;
24 - NOV - 1997;
10 - SEP - 1998;
11 - SEP - 1998;
11 - SEP - 1998;
11 - SEP - 1998;
12 - SEP - 1999;
13 - SEP - 1999;
13 - SEP - 1999;
15 - SEP - 1999;
                                                                                                                    05-0CT-1999;
29-NOV-1999;
30-NOV-1999;
01-DEC-1999;
02-DEC-1999;
16-DEC-1999;
16-DEC-1999;
20-DEC-1999;
```

(GETH) GENENTECH INC.

Ferrara N; n ME, Goddard A; Kljavin IJ; , Tumas D; Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, I Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ, I Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Williams PM, Wood WI;

2003-329602/31.

P-PSDB; ABU71950.

88 New transmembrane polypeptides and nucleic acids encoding the polypeptides, useful in gene therapy, in chromosome identification, chromosome markers, in generating probes and in tissue typing.

2; Fig 121; 484pp; English Claim

The invention relates to an isolated nucleic acid with at least 80% nucleic acid sequence identity to a nucleotide sequence encoding one of a secreted/transmembrane polypeptides, or PRO polypeptides or encoding a PRO protein extracellular domain. Also included are a vector comprising the PRO nucleic acid, a host cell comprising the vector, producing a PRO polypeptide (by culturing the host cell for the expression of the PRO polypeptide, and recovering the PRO polypeptide from the cell culture), an isolated PRO polypeptide (having at least 80% sequence identity to: (a) an amino acid sequence selected from the 61 PRO proteins; (b) an amino acid sequence selected from the 61 PRO proteins; (b) an amino acid sequence selected from the 61 PRO proteins; (c) an amino acid sequence selected from the 61 PRO polypeptide or to a PRO polypeptide lacking its associated signal a PRO polypeptide or to a PRO polypeptide lacking its associated signal commune (detailed), a chimmeeric modecule comprising a PRO polypeptide of fused to a cheterologous amino acid sequence, an anti-PRO antibody, detecting a cheterologous amino acid sequence, an anti-PRO antibody, detecting a protein a bioactive molecule to a cell expressing a PRO PROSES or PRO1868 and

747

SerMetProTrp11eCysGluMetProGluI1eSerProLeuAsp

200 703 B

standard; cDNA; 997

ACA89386

RESULT 10 ACA89386 ID ACA8

```
modulating at least one biological activity of a cell expressing a PRO245 or PRO1868. Nucleic acids which encode PRO can be used to generate either transgenic animals or knock-out animals which may be used in the development and screening of therapeutically useful reagents. The nucleic acids may also be used in gene therapeutically useful reagents. The nucleic acids may also be used in generating probes. The PRO polypeptides are useful as molecular markers for protein electrophoresis, and the isolated nucleic acids may be used for recombinantly expressing those markers. The PRO polypeptides and nucleic acids may also be used in tissue typing. Anti-PRO antibodies are useful in diagnostic assays for PRO, and in affinity purification of PRO from recombinant cell culture or natural sources. The present sequence encodes a PRO protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   402
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        642
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |||:::
| CAAATGTTCTTATGGACTGTTGCTGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATC 222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               522
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      66
                                                                                                                                                                                                                                                                                                                                                                                                                    GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            41 ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       60 HisArgAsnlleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLyaAsnCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        343 TGTCCATTGAACTGGGAATATTTTCAATCCAGCTGCTACTTCTTTTCTACTGACACCATT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ThrTrpSerSerLeuLyBABnCyBSerABpMetGlyAlaHisLeuValVallleABp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       283 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGGTCAAGAATTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ThrGlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          160 GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 997 BP; 376 A; 189 C; 200 G; 232 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                         Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                    (1-997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                =
                                                                                                                                                                                                                                                                                                                                                                    US-10-812-620-2 (1-214) x ACA60316
                                                                                                                                                                                                                                                  1.41e-72
774.00
79.07%
66.51%
65.65%
                                                                                                                                                                                                                                                                                      Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                          Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                              21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        180
                                                                                                                                                                                                                                                                                                                       Query Match:
DB:
                                                                                                                                                                                                                                                         Pred. No.:
      888888888888888888888
                                                                                                                                                                                                                                                                                                                                                                                                  ò
                                                                                                                                                                                                                                                                                                                                                                                                                          셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    유
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               δ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ें
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ਨੇ
```

```
9805-0085582P

9805-0086302P

9805-0086302P

9805-0086302P

9805-008703B

9805-008703B

9805-008703B

9805-008802B

9805-008802B

9805-008802B

9805-008802B

9805-008802B

9805-008802B

9805-008802B

9805-008802B

9805-008802B

9805-008802B

9805-008802B

9805-008802B

9805-008802B

9805-008802B

9805-008802B

9805-008802B

9805-008802B

9805-008802B

9805-008802B

9805-008802B

9805-008802B

9805-008802B

9805-008802B

9805-008802B

9805-008802B

9805-008802B

9805-008802B

9805-008802B

9805-008902B

9805-009064B

9805-009064B

9805-009064B

9805-009064B

9805-009064B

9805-009064B

9805-009064B

9805-009064B

9805-009064B

9805-009064B

9805-009064B

9805-009064B

9805-009064B

9805-009064B

9805-009064B

9805-009064B

9805-009064B

9805-009064B

9805-009135B

9805-009135B

9805-009135B

9805-009138B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                98US-0096012P.
98US-0096757P.
98US-0096766P.
 98US-0085580P
15 - MAY - 1998,

15 - MAY - 1998,

18 - MAX - 1998,

22 - MAX - 1998,

22 - MAY - 1998,

23 - MAY - 1998,

24 - JUN - 1998,

24 - JUN - 1998,

24 - JUN - 1998,

25 - JUN - 1998,

26 - JUN - 1998,

26 - JUN - 1998,

26 - JUN - 1998,

27 - JUN - 1998,

28 - JUN - 1998,

29 - JUN - 1998,

20 - JUN - 1998,

20 - JUN - 1998,

20 - JUN - 1998,

20 - JUN - 1998,

20 - JUN - 1998,

20 - JUN - 1998,

20 - JUN - 1998,

20 - JUN - 1998,
                                                                                                                                                                                                                                  10-JUN-1998;
10-JUN-1998;
11-JUN-1998;
11-JUN-1998;
                                                                                                                                                                                                                                                                                                         16-JUN-1998;
17-JUN-1998;
17-JUN-1998;
                                                                                                                                                                                                                                                                      11-JUN-1998;
12-JUN-1998;
12-JUN-1998;
                                                                                                                                                                                                                                                                                                                                  17-JUN-1998;
18-JUN-1998;
19-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                     22-JUN-1998;
22-JUN-1998;
24-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                               24-JUN-1998;
24-JUN-1998;
24-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                  24-JUN-1998;
25-JUN-1998;
25-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10-AUG-1998;
17-AUG-1998;
17-AUG-1998;
                                                                                                                                                                                        10-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            25-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                             22-JUN-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       26-JUN-1998
26-JUN-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         26-JUN-1998
                                                                                                                                                                                                                                                                                                                                                                                                                          24-JUN-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      25-JUN-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                25-JUN-1998
 Human; PRO polypeptide; secreted protein; transmembrane protein; chromosome mapping; gene mapping; tumour; adrenal; lung; colon; breast; prostate; rectal; cervical; liver; cancer; TRF-alpha; runour necrosis factor-alpha; proliferation; differentiation; chondrocyte cell; bone disorder; cartilage disorder; sports injury; arthritis; cytostatic; antiarthritic; osteopathic; gene therapy; gene;
                                   cDNA encoding human PRO polypeptide #12.
                                                                                                                                                                                              970S-0059263P.
970S-0059266P.
970S-0063421P.
970S-0063121P.
970S-0063121P.
970S-0063121P.
970S-0063541P.
970S-0063544P.
970S-0063544P.
970S-0063544P.
970S-0063544P.
970S-0063734P.
970S-0063734P.
970S-0063734P.
970S-0063734P.
970S-0063734P.
970S-0063734P.
970S-0063734P.
970S-006312P.
970S-006312P.
970S-006312P.
970S-006312P.
970S-006313P.
970S-008104P.
970S-008104P.
970S-008104P.
970S-008104P.
970S-008104P.
970S-008104P.
970S-008133P.
970S-008104P.
970S-008133P.
970S-008133P.
970S-008133P.
970S-008134P.
970S-008134P.
970S-008349SP.
970S-008349SP.
970S-008349SP.
970S-008349SP.
970S-008349SP.
970S-008349SP.
970S-008349SP.
970S-008349SP.
970S-008349SP.
970S-008349SP.
970S-008349SP.
                                                                                                                                                                              2002US-00187597
                 (first entry)
                                                                                                                                           US2003036141-A1
                                                                                                                         Homo sapiens.
                                                                                                                                                                              01-JUL-2002;
                                                                                                                                                                                                                                 24-0CT-1997
28-0CT-1997
28-0CT-1997
28-0CT-1997
28-0CT-1997
31-0CT-1997
31-0CT-1997
31-0CT-1997
31-0CT-1997
31-0CT-1997
31-0CT-1997
31-0CT-1997
31-0CT-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15-APR-1998;
21-APR-1998;
22-APR-1998;
22-APR-1998;
29-APR-1998;
29-APR-1998;
29-APR-1998;
29-APR-1998;
05-MAY-1998;
07-MAY-1998;
07-MAY-1998;
15-MAY-1998;
                                                                                                                                                                                                                                                                                                                                                                                    10-MAR-1998
11-MAR-1998
20-MAR-1998
20-MAR-1998
27-MAR-1998
27-MAR-1998
31-MAR-1998
31-MAR-1998
01-APR-1998
                                                                                                                                                                                                                                                                                                                                                           12-DEC-1997;
17-DEC-1997;
18-DEC-1997;
                09-JUL-2003
                                                                                                                                                             20-FEB-2003
                                                                                                                                                                                                                         21-OCT-1997
ACA89386;
```

```
ThrGlnGluGluGluGluPheLeuPheArgThrLy8ProLy8ArgLy8GluPheTyrlle 139
                                                                                                                                                                                                                                                 179
                                                                                                                                                                                                                                                                                          342
                                                                                        402
                                                                                                             ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAsp 119
                                                                                                                           TCCTGGGCGTTAAGTTTAAAGAACTGCTCAGCCATGGGGGCTCACCTGGTGGTATCAAC 462
                                                                                                                                                                               522
                                                                                                                                                                                                     159
                                                                                                                                                                                                                          582
   223 ACCAGATGTGTTGTGACATTTCGCATCTTTCAAACCTGTGATGAGAAAAAGTTTCAGCTA 282
                                                                  66
                        79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; 88; gene; secreted protein; transmembrane protein; PRO; tumour; proliferation; differentiation; chondrocyte cells; tumour necrosis factor-alpha; TNF-alpha; blood; gene therapy.
                                                                 CysProLeudsnTrpLysH1sTyrGlnSerSerCysTyrPhePheSerThrThrThrThrLeu
|||||||||||||||||
TGTCCATTGAACTGGGAATATTTTCAATCCAGCTGCTACTTCTTTTCTACTGACACCATT
                                                                                                                                                                                                    GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr
                                                                                                                                                                                                                                                GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys
                       Human secreted/transmembrane protein (PRO) cDNA #12.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               98US-00105413.
98WO-US019330.
98WO-US019314.
98WO-US0211141.
98US-00187368.
98US-002054.
99US-00254311.
99WO-US005028.
99WO-US010733.
99WO-US010733.
99WO-US010733.
                                                                                                                                                                                                                                                                                                                                                                                                        ACA73396 standard; cDNA; 997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           02-JUL-2002; 2002US-00187603
                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-JUL-2003 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US2003036146-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          16-SEP-1998
07-OCT-1998
06-NOV-1998
06-NOV-1998
03-MAR-1999
03-MAR-1999
14-MAY-1999
14-MAY-1999
14-MAY-1999
25-AUG-1999
25-AUG-1999
25-AUG-1999
25-AUG-1999
25-AUG-1999
25-AUG-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 26-JUN-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20-FEB-2003
                                                                                                                                                                                                                          523
                                                                                                                                                                                                                                                                                                                                                            703
                                                                  80
                                                                                        343
                                                                                                              100
                                                                                                                                   403
                                                                                                                                                         120
                                                                                                                                                                               463
                                                                                                                                                                                                     140
                                                                                                                                                                                                                                                 160
                                                                                                                                                                                                                                                                                                                                       200
                                                                                                                                                                                                                                                                                                                                                                                                                             ACA73396;
                                                                                                                                                                                                                                                                                                                                                                                  RESULT 11
                                                                                   셤
                                                                                                                                                                         g
                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                          6 6 6
                                                                                                            ઠ
                                                                                                                             요상
                                                                                                                                                                                                    ò
                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                         ठ
                                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                            유
                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            997
1143
27
2
2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length:
Matches:
Conservative:
Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Saps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       US-10-812-620-2 (1-214) x ACA89386 (1-997)
98US-0096867P
98US-0096891P
98US-0096949P
98US-0096949P
98US-0096952P
98US-0097052P
98US-0097052P
98US-0097052P
98US-0097071P
98US-0097071B
98US-0098811P
98US-0098811P
98US-0098811P
98US-0098811P
98US-0098811P
98US-0098811P
98US-0099741P
98US-0099741P
98US-0099741P
98US-0100662P
98US-0100649P
98US-0100644P
98US-0100641P
98US-0100649P
98US-0101447P
98US-0101477P
98US-0101477P
98US-0101477P
98US-0101477P
98US-0101477P
98US-0101477P
98US-0101477P
98US-0101477P
98US-0101477P
98US-0101477P
98US-0101477P
98US-0101477P
98US-0101477P
98US-0101477P
98US-0101477P
98US-0101477P
98US-0101477P
98US-0101477P
98US-0101477P
98US-0101477P
98US-0101477P
98US-0101477P
98US-0101477P
98US-0101477P
98US-0101477P
98US-0101477P
98US-0101477P
98US-0101478P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1.41e-72
774.00
79.07$
66.51$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      25-SEP-1998;
29-SEP-1998;
29-SEP-1998;
29-SEP-1998;
30-SEP-1998;
30-SEP-1998;
                     17-AUG-1998

18-AUG-1998

26-AUG-1998

26-AUG-1998

26-AUG-1998

26-AUG-1998

26-AUG-1998

26-AUG-1998

10-SEP-1998

10-SEP-1998

10-SEP-1998

10-SEP-1998

10-SEP-1998

10-SEP-1998

10-SEP-1998

11-SEP-1998

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    30-SEP-1998
01-OCT-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ..
No..
```

셤

8 8

```
Desnoyers L,
                                                                                                                                                                                                                                                                                  Claim 2; Fig 23; 707pp; English.
                                                                                                                                                                                                                                         Watanabe CK,
99WO-USO21090.
99US-00403297.
99US-00423844.
99WO-USO28301.
99WO-USO28551.
                                                                                              2000WO-US023328.
2000US-00664610.
2000US-0065350.
2000US-00709238.
                                                                                                                     000WO-US032678.
                                                      000WO-US005841
                                                                                                                 2000WO-US030952
                                                                                                                                  2001WO-US006520
                                                                                                                                                    001US-00866028
                                                                                                                                                                  2001WO-US019692
                       99WO-US031274
                                             2000WO-US005004
2000WO-US005601
                                                                                                                                                                                                                            (GETH ) GENENTECH INC
                                                                                                                                                                                                                                                   2003-332034/31.
                                                                                                                                                                                                                                     Chen J,
                                                                                                                                                                                                                                         Smith V,
                                                                                                                                                                                                                                                        P-PSDB; ABU86204.
                                                                                                                                                                                                                    15-JAN-2002;
                                                                                                                                                                  20-JUN-2001;
                                                                                                           08-NOV-2000;
                                                                                                                                                0-MAY-2001;
                  02-DEC-1999;
                                                                                                                                                                                                                                     Baker KP,
                                                                                                                                                                                                                                          Pan J,
0
```

, Goddard A, Godowski PJ, Gurney AL; Wood WI, Zhang Z;

Three hundred and five nucleic acids encoding PRO polypeptides, useful in gene therapy, chromosome identification, tissue typing, and for detecting the presence of tumor in a mammal.

The invention relates to three hundred and five nucleic acids encoding PRO polypeptides (secreted and transmembrane), sequences 80% identical to them, or encoding a PRO polypeptide lacking its associated signal peptide or an extracellular domain of the PRO polypeptide, with or lacking its associated signal peptide. Also included are the encoded PRO proteins, PRO expression vectors, host cells transformed with the vector (used to produce PRO proteins), a chimaeric molecule comprising the PRO polypeptide fused to a heterologous amino acid sequence, an anti-PRO antibody, a method for stimulating the release of tumor necrosis factor alpha (TNF-alpha) from human blood (by contacting the blood with PRO1079,

CC PR0433), a method for stimulating the proliferation or differentiation of chondrocyte cells by contacting the proliferation or differentiation of chondrocyte cells by contacting the proliferation or differentiation or anti-production or differentiation or amount of the nucleotide prolypeptide.

C amethod for detecting the presence of tumour in a mammal and an oligonucleotide probe derived from any of the nucleotide sequences cited above. The PRO bolypeptide or anti-PRO antibody is useful for preparing a condition that is responsive to the PRO polypeptide or anti-PRO antibody. The PRO nucleotide sequences are useful or antisense RNA and DNA. PRO mucleic acids are also useful in preparing PRO polypeptides, in assays to identify other proteins or molecules involved antisense RNA and DNA. PRO mucleic acids are also useful in preparing PRO polypeptides, or in a binding reaction, to generate transgenic animals or knockout animals, which in turn are useful in the development and screening of therapeutically useful reagents, for chromosome identification, and therapeutically useful reagents, for chromosome identification, and cuseful for detecting the presence of a tumour in a mammal, stimulating the presence of a tumour in a mammal, stimulating the presence of tumour necrosis factor-alpha from human blood, in gene criebase of tumour necrosis factor-alpha from fundance is purposes. The anti-PRO antibodies may be used in diagnostic assays for culture or natural course. The research aminore is a pubm encoding a PRO CULTURE OF THE PRO ADDIAGES. culture or natural sources. The present sequence is a cDNA encoding a PRO TGTCCATTGAACTGGGAATATTTTCAATCCAGCTGCTACTTTTCTACTGACACCATT 402 ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAsp 119 ThrGlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139 GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179 180 AlaThrIleArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199 40 CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeu 99 ThrargCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59 1 MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer 223 ACCAGATGTGTTGTGACATTTCGCATCTTTCAAACCTGTGATGAGAAAAAGTTTCAGCTA 60 HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 583 AAGTCTCTGAGCTTCTGGGATGTAGGGGGAGCCCAACATAGCTACCCTGGAGGACTGT GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle Sequence 997 BP; 376 A; 189 C; 200 G; 232 T; 0 U; 0 Other; 997 143 27 20 20 20 20 Length: Matches: Conservative: Mismatches: Indels: US-10-812-620-2 (1-214) x ACA73396 (1-997) 1.41e-72 774.00 79.07% 66.51% 65.65% Percent Similarity: Best Local Similarity: Query Match: Alignment Scores: 106 41 283 80 343 100 403 120 523 160 21 463 140 protein à ద ò 셤 ò 엄 à a ò a ò 셤 ò 원 ð d ò g à

```
Pan J,
                                                                                                                                                                                                                                                                                                                                                                                Query Match:
  ò
                                                                                                                                                                                                                                                                                                                                                                                                                       셤
Human; gene; 85; secreted and transmembrane protein; PRO; TNF-alpha;
tumour necrosis factor alpha; chondrocyte cell; tumour; gene therapy;
                  200 SerMetProTrplleCysGluMetProGluileSerProLeuAsp 214
                         ::: |||||||:: 703 AATTATTTTGGAAATGGTAGGAATAAATCCTTTGAAC 747
                                                                                      Human secreted/transmembrane protein (PRO) cDNA #12.
                                                    ACA05711 standard; cDNA; 997 BP
                                                                                                                                                                      98WO-US019330.
98WO-US019330.
98US-00168978.
                                                                                                                                                                                                         99US-00202054.
99US-00254311.
99WO-US005028.
                                                                                                                                                                                                                         99US-00311832.
99WO-US010733.
99WO-US012252.
99US-00380137.
                                                                                                                                                                                                                                                 99US-00380138.
99US-00380139.
99US-00380142.
99WO-US020111.
                                                                                                                                                                                                                                                                        99WO-US021090.
99US-00403297.
99US-00423844.
                                                                                                                                                                                                                                                                                         99WO-US028301.
                                                                                                                                                                                                                                                                                                                 2000WO-US004341.
                                                                                                                                                                                                                                                                                                                            2000WO-US004414.
                                                                                                                                                                                                                                                                                                                                  2000WO-US005004.
                                                                                                                                                                                                                                                                                                                                        2000WO-US005601.
                                                                                                                                                                                                                                                                                                                                             2000WO-US005841.
                                                                                                                                                                                                                                                                                                                                                         2000WO-US008439
                                                                                                                                                                                                                                                                                                                                                                                2000WO-US015264,
                                                                                                                                                                                                   98WO-US025108
                                                                                                                                                                                                                                                                                                                                                   000WO-US006884
                                                                                                                                                                                                                                                                                                                                                                           2000WO-US014941
                                                                                                                                                                                                                                                                                                                                                                                                                               2000WO-US032678
                                                                                                                                                           2002US-00194423
                                                                                                                                                                                                                                                                                                                                                                                                                        2000WO-US030952
                                                                           (first entry)
                                                                                                                                                                                                                                                                                                     SU-OM66
                                                                                                                                                                                                                                                                                                           2000WO-US
                                                                                                                                    US2003036162-A1.
                                                                                                             tissue typing
                                                                                                                                                                                                                                                                                                                                                                                                                  08-NOV-2000;
08-NOV-2000;
01-DEC-2000;
                                                                                                                         Homo sapiens.
                                                                                                                                                                                                                                                                                         01-DEC-1999;
02-DEC-1999;
30-DEC-1999;
                                                                                                                                                                                                                                                                                                                     18-FEB-2000;
22-FEB-2000;
                                                                                                                                                           12-JUL-2002;
                                                                                                                                                                                                                                                                                                           05-JAN-2000;
                                                                                                                                                                                                                                                                                                                18-FEB-2000;
                                                                           29-MAY-2003
                                                                                                                                                                                                                                      02-JUN-1999
                                                                                                                                                                                                                                                             25-AUG-1999
                                                                                                                                                20-FEB-2003
                                                                                                                                                                                                                                                       25-AUG-1999
                                                               ACA05711;
                                              ACA05711
```

```
transmembrane (PRO) polypeptides. Also disclosed is an antibody that transmembrane (PRO) polypeptides. Also disclosed is an antibody that transmembrane (PRO) polypeptide, a method for stimulating the release of tumour necrosis factor alpha (TNF-alpha) from human blood by contacting the blood a PRO polypeptide, a method for stimulating the proliferation or differentiation of chondrocyte cells by contacting the cells with a PRO polypeptide, a method for stimulating the cells with a PRO polypeptide, a method for detecting the presence of a tumour in a mammal and an oligonucleotide probe derived from any of the PRO nucleotide sequences. The nucleotide sequences are useful as probes, in chromosome and gene mapping, in generating antisense RNA and DNA, in preparing PRO polypeptides by recombinant techniques and in gene therapy (e.g. for replacement of defective gene). The PRO polypeptides are useful as molecular weight markers for protein electrophoreasis purposes, for chromosome identification, as chromosome markers, as therapeutic agents, for stimulating the proliferation or differentiation of chondrocytes and stimulating the proliferation or differentiation of chondrocytes and detecting the proliferation or differentiation of chondrocytes and detecting the presence of a tumour. The PRO polypeptides and nucleic acids may also be used disanostically for tissue typing. The sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New secreted and transmembrane PRO polypeptides and nucleic acids, useful in gene therapy, in chromosome and gene mapping, as chromosome markers, in tissue typing, and in chromosome identification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 MetAsnSerThrlygSerProAlaSerHigHigThrGluArgGlyCygPheLygAsnSer 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gurney AL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Godowski PJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 997 BP; 376 A; 189 C; 200 G; 232 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2097
2017
2018
2018
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Goddard A, Godo
Wood WI, Zhang Z;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US-10-812-620-2 (1-214) x ACA05711 (1-997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Chen J, Desnoyers L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 2; Fig 23; 706pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Watanabe CK,
                         2001US-00816744.
2001US-00854208.
2001US-00854280.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            polypeptides of the invention
                                                                                                    2001US-00866028.
2001WO-US017800.
2001US-00874503.
                                                                                                                                                                                                              2001WO-US021066.
2001WO-US021735.
2001US-00908827.
                                                                                                                                                                                                                                                                                            2001US-00918585.
2001US-00924419.
2001US-00929404.
                                                                                                                                                                                                                                                                                                                                                                                                       2001US-00941992.
2001WO-US006520
                                                                                                                                                                                     2001WO-US019692
                                                                                                                                                                                                                                                                                                                                                                             2001US-00931836
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15-JAN-2002; 2002US-00052586
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1.41e-72
774.00
79.07%
66.51%
65.65%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2003-332039/31.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Smith V,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         P-PSDB; ABU67417,
                      22-MAR-2001;
10-MAY-2001;
10-MAY-2001;
25-MAY-2001;
01-JUN-2001;
05-JUN-2001;
20-JUN-2001;
                                                                                                                                                                                                              29-JUN-2001;
09-JUL-2001;
18-JUL-2001;
                                                                                                                                                                                                                                                                                            30-JUL-2001; 2
06-AUG-2001; 2
13-AUG-2001; 2
                                                                                                                                                                                                                                                                                                                                                                                                       28-AUG-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         04-SEP-2001;
                                                                                                                                                                                                                                                                                                                                                                           16-AUG-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                  29-AUG-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Baker KP,
```

```
99US-00380138.
99US-00380139.
99US-00380142.
99WO-US020111.
                                                 99WO-US021090.
99US-00403297.
99US-00423844.
99WO-US028301.
                                                                                                                                                                                                                                                                    2000US-00664610.
2000US-00665350.
2000US-00709238.
                                                                                                                                                                                                                                                                                                                                                                                                                   2001WO-US021066.
2001WO-US021735.
2001US-00908827.
                                                                                                                                        2000WO-US004414.
2000WO-US005004.
                                                                                                                                                           2000WO-US005601.
2000WO-US005841.
2000WO-US006884.
                                                                                                                                                                                                                                                                                                                                                22-MAR-2001; 2001US-00816744
10-MAY-2001; 2001US-00854208
10-MAY-2001; 2001US-00854280
                                                                                                                                                                                                                                                                                                                                                                             2001US-00866028.
2001WO-US017800.
                                                                                                                                                                                                                                                                                                                                                                                                                                               2001US-00918585.
2001US-00924419.
                                                                                                 99WO-US031274
2000WO-US000219
                                                                                                                                                                                                   2000WO-US013705
                                                                                                                                                                                                           2000WO-US014042
                                                                                                                                                                                                                      2000WO-US014941
                                                                                                                                                                                                                              2000WO-US015264
                                                                                                                                                                                                                                        2000WO-US020710
                                                                                                                                                                                                                                                2000US-00644848
2000WO-US023328
                                                                                                                                                                                                                                                                                                 2000WO-US030952
                                                                                                                                                                                                                                                                                                           2000WO-US032678
                                                                                                                                                                                                                                                                                                                              2000WO-US034956
                                                                                                                                                                                                                                                                                                                                        2001WO-US006520
                                                                                                                     2000WO-US004341
                                                                                                                                                                                       2000WO-US008439
                                                                                                                                                                                                                                                                                                                                                                                                 2001US-00874503
                                                                                                                                                                                                                                                                                                                                                                                                          2001WO-US019692
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            16-AUG-2001; 2001US-00931836
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2001US-00941992
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2001WO-US027099
                                                                                         99WO-US028551
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2001US-00946374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15-JAN-2002; 2002US-00052586
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              or liver tumors.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (GETH ) GENENTECH INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2003-342038/32.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Smith V,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                P-PSDB; ABU80445
                                                                                                                                                                                                 17-MAY-2000;
22-MAY-2000;
28-MAY-2000;
28-JUL-2000;
28-JUL-2000;
24-AUG-2000;
18-SEP-2000;
18-SEP-2000;
8-NOV-2000;
                                                                                                                                                                                                                                                                                                         01-DEC-2000;
20-DEC-2000;
20-DEC-2000;
                                                                                                                                                                                                                                                                                                                                                                            25-MAY-2001;
01-JUN-2001;
05-JUN-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                   29-JUN-2001;
09-JUL-2001;
18-JUL-2001;
                                                                                                                                                          01-MAR-2000;
02-MAR-2000;
15-MAR-2000;
30-MAR-2000;
                                                                                        02-DEC-1999;
30-DEC-1999;
05-JAN-2000;
                                                                                                                                                                                                                                                                                                                                        28-FEB-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                               30-JUL-2001;
06-AUG-2001;
            25-AUG-1999;
25-AUG-1999;
25-AUG-1999;
01-SEP-1999;
                                                 15-SEP-1999;
18-OCT-1999;
12-NOV-1999;
01-DEC-1999;
                                                                                                                                                                                                                                                                                                08-NOV-2000;
                                                                                                                                                                                                                                                                                                                                                                                                          20-JUN-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    13-AUG-2001;
                                                                                                                                18-FEB-2000;
                                                                                                                                        22-FEB-2000;
24-FEB-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              29-AUG-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         04-SEP-2001;
                                                                                                                     18-FEB-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Baker KP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cervical
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pan J,
   283 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT 342
                                                                                                                                TCCTGGGCGTTAAGTTTAAAGAACTGCTCAGCCATGGGGGCTCACCTGGTGGTTATCAAC 462
                                                                                                                                                                                                                      522
                                                                                                                                                                                                                                        159
                                                                                                                                                                                                                                                           582
                                                                                                                                                                                                                                                                             GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
                                                                                                                                                                                                                                                                                                 642
             163 CAAATGTTCTTATGGACTGTTGCTGGGATCCCCATCCTATTTCTCAGTGCCTGTTTCATC 222
                                                 100 ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValVallleAsp 119
                                                                                                                                                                                                  ThrGlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                                                                                                                                                                                    AlaThrIleArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                       GCCACCATGAGAGACTCTTCAAACCCAAGGCAAAATTGGAATGATGTAACCTGTTTCCTC 702
                                         59
                                                                                79
                                                                                                                     66
   40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            tumour; adrenal; lung; colon; breast; prostate; rectal; cervical; PRO; gene therapy; gene; ss.
                                                                                                                     CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrLeu
                                                                                                                                                                                                                                       GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr
GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle
                                        ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro
                                                                         HisArgAsnlleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys
                                                                                                                                                                                                             GGACTGTCAGACCAGGTTGTCGAGGGTCAGTGGCAATGGGTGGAGGCGCACACTTTGACA
                                                                                                                                                                                                                                                                                          SerMetProTrpileCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                     cDNA encoding human PRO protein #12
                                                                                                                                                                                                                                                                                                                                                                                                                    ACA66545 standard; cDNA; 997 BP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98US-00105413.
98WG-US019330.
98US-00168978.
98WG-US021141.
98WG-US025108.
98WG-US025208.
99WG-00254311.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             99US-00311832
99WO-US010733
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2002US-00184640
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 99WO-US012252
                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               US2003036137-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      27-JUN-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       26-JUN-1998;
16-SEP-1998;
07-OCT-1998;
07-OCT-1998;
06-NOV-1998;
01-DEC-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            14-MAY-1999;
14-MAY-1999;
02-JUN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         23-JUN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          03-MAR-1999
08-MAR-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20-FEB-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  07-DEC-1998
                                                                               9
                                                                                                                                                                              403
                                                                                                                                                                                                  120
                                                                                                                                                                                                                                                                                                                    180
                                                                                                                                                                                                                                                                                                                                                                                                                                      ACA66545;
  21
                                         47
                                                                                                                    80
                                                                                                                                                                                                                     463
                                                                                                                                                                                                                                       140
                                                                                                                                                                                                                                                                              160
                                                                                                                                                                                                                                                                                                                                        643
                                                                                                                                                                                                                                                                                                                                                          200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human;
liver;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo
                                                                                                                                                                                                                                                                                                                                                                                                                    g
                                       ò
                                                         엄
                                                                          õ
                                                                                             셤
                                                                                                                    ò
                                                                                                                                    원
                                                                                                                                                     ò
                                                                                                                                                                          셤
                                                                                                                                                                                                 ò
                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                       셤
                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                             셤
                                                                                                                                                                                                                                                                                                                   ઠ
                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                           셤
```

```
PR 25-MUG-1999; 9908-00380139;
PR 25-MUG-1999; 9908-00380113;
PR 15-SEF-1999; 9908-00380111;
PR 15-SEF-1999; 9908-00380111;
PR 15-SEF-1999; 9908-003291;
PR 15-SEF-1999; 9908-003291;
PR 15-SEF-1999; 9908-003291;
PR 17-MUG-1998-19908-003291;
PR 17-MUG-1998-19908-003291;
PR 17-MUG-20008-003008-0030044.
PR 27-PEB-2000; 20008-00300944.
PR 17-MUG-20008-003008-00300944.
PR 17-MUG-20008-003008-00300944.
PR 17-MUG-20008-003008-00300944.
PR 17-MUG-20008-003008-00300944.
PR 17-MUG-20008-003008-00300944.
PR 17-MUG-20008-003008-00300944.
PR 18-SEF-20009-003008-00300944.
PR 18-SEF-20009-00300944.
PR 18-SEF-2000
```

```
OHO!
   ThrGlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                                                                                                                                                                                                                                                                       GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                                                                                                                                                                                                                                                                                                                                        GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
                                                                                                                                                                                                                                                                                                                                                                                                                                                   AlaThrIleArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT 342
                                                                                                                                                                                                                                                                                                                 ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValVallleAsp 119
                                                                                                                                                                                                                                                                                                                                                 ACCAGATGTGTGTGTGACATTTCGCATCTTTCAAACCTGTGATGAGAAAAAGTTTCAGCTA 282
                                                                                                                                                                    MetAenSerThrLygSerProAlaSerHisHhrGluArgGlyCysPheLysAsnSer 20
                                                                                                                                                                                                     GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle 40
                                                                                                                                                                                                                                     ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                                                                                      60 HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys 79
                                                                                                                                                                                                                                                                                                       CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrLeu 99
rectal, cervical or liver tumours. The PRO polypeptides are also useful as molecular weight markers, or for chromosome identification. The PRO genes are useful as hybridisation probes, or for screening libraries of human cDNA, genomic DNA or mRNA. The PRO genes may also be used in gene therapy, particularly for replacing a defective gene. The present sequence represents a cDNA encoding a human PRO polypeptide of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Novel human secreted and transmembrane protein PCR primer #151.
                                                                   Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SerMetProTrpileCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    :::
AATTATTTTCGGATTTGTGAAATGGTAGGAATAAATCCTTTGAAC 747
                                                                                           997
1143
27
43
2
                                                                  0 ; D
                                                                                           Length:
Matches:
Conservative:
Mismatches:
Indels:
Gaps:
                                                                   H,
                                                                   Sequence 997 BP; 376 A; 189 C; 200 G; 232
                                                                                                                                                    US-10-812-620-2 (1-214) x ACA66545 (1-997)
                                                                                         1.41e-72
774.00
79.07%
66.51%
65.65%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ACD07717 standard; DNA; 997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                         Percent Similarity:
Best Local Similarity:
                                                                                    gnment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             07-AUG-2003
                                                    invention
                                                                                                                                                                    -
                                                                                                                                                                                                                                      41
                                                                                                                                                                                                                                                                                       283
                                                                                                                                                                                                                                                                                                                        343
                                                                                                                                                                                                                                                                                                                                                        403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            703
                                                                                                                                                                                                     21
                                                                                                                                                                                                                      163
                                                                                                                                                                                                                                                      223
                                                                                                                                                                                                                                                                                                       80
                                                                                                                                                                                                                                                                                                                                        100
                                                                                                                                                                                                                                                                                                                                                                        120
                                                                                                                                                                                                                                                                                                                                                                                                                                          160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ACD07717
                                                                                                                           Query Match:
DB:
 886666668888
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ****
                                                                                                                                                                                . g
                                                                                                                                                                                                                8 8
                                                                                                                                                                                                                                                 g
                                                                                                                                                                                                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ሯ
                                                                                                                                                                    ò
                                                                                                                                                                                                    Š
                                                                                                                                                                                                                                                                     6 8 6
                                                                                                                                                                                                                                                                                                                  음 성 음
                                                                                                                                                                                                                                                                                                                                                                  ሪ 8 ሪ
                                                                                                                                                                                                                                                                                                                                                                                                                                     જે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ठ
```

```
Human; secreted and transmembrane protein; PRO; pharmaceutical; diagnostic; biosensor; bloreactor; Parkinson's disease; Alzheimer's disease; inflammation; nephritis; wound healing; nerve repair; collateral blood vessel formation; cancer; colorectal cancer; haemorrhage; rheumatoid arthritis; diabetes; cirthosis; fibrosis; restenosis; restenosis; dermal fibrotic condition; keloid; scarring; ischaemia; stroke; hypertension; heart attack; atherosclerosis; infertility; gene therapy; PCR; primer; ss.
                                                                                                                                                                                                                                                                                        97US-0059113P.
97US-0059117P.
97US-0059119P.
97US-0059121P.
97US-0059122P.
97US-005912P.
97US-005912P.
97US-0059263P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             9705-0062285P
9705-00622814P
9705-0062814B
9705-0063120P
9705-0063121P
9705-0063121P
9705-0063121P
9705-0063121P
9705-0063124P
9705-0063324P
9705-0063541P
9705-0063541P
9705-0063541P
9705-0063541P
9705-0063541P
9705-0063541P
9705-00635418P
9705-00635418P
9705-0063734P
9705-0063738P
9705-0063738P
9705-0063738P
9705-0063738P
9705-0063738P
9705-0063738P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9705-0065186P
9705-0065846P
9705-0065631P
9705-0066120P
9705-0066364P
9705-0066453P
9705-0066470P
9705-0066770P
9705-0066770P
9705-0066770P
9705-0066770P
                                                                                                                                                                                                                                                          2001US-00907824
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98WO-US025108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99WO-US020594
                                                                                                                                                                                       JS2002197671-A1
                                                                                                                                                                                                                                                                                                                                                                                                                            18-SEP-1997
17-OCT-1997
17-OCT-1997
24-OCT-1997
24-OCT-1997
24-OCT-1997
24-OCT-1997
24-OCT-1997
24-OCT-1997
24-OCT-1997
24-OCT-1997
28-OCT-1997
28-OCT-1997
28-OCT-1997
28-OCT-1997
28-OCT-1997
28-OCT-1997
29-OCT-1997
29-OCT-1997
29-OCT-1997
29-OCT-1997
29-OCT-1997
29-OCT-1997
21-OCT-1997
                                                                                                                                                         sapiens
                                                                                                                                                                                                                                                        17-JUL-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       17-SEP-1998;
01-DEC-1998;
08-SEP-1999;
                                                                                                                                                                                                                        26-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                              SEP-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18-NOV-1997
21-NOV-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12-NOV-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    24-NOV-1997
```

Mismatches:

Best Local Similarity:

```
The invention describes a new isolated nucleic acid molecule comprising the full length coding sequence of the DNA deposited with the American Type Culture Collection (e.g. ATCC Deposit No. 209558), or a sequence with at least 80% identity to a DNA encoding a PRO polypeptide comprising convint at least 80% identity to a DNA encoding a PRO polypeptide comprising specification. The PRO polypeptides or polymucleotides are useful as pharmaceuticals, diagnostics, biosensors or bioreactors. These are patricularly useful for detecting or treating e.g. Parkinson's disease, Alzheimer's disease, inflammations, nephritis, wound healing, nerve contenties, diabetes, cirrhosis of the liver, fibrosis of the lungs, arthritis, diabetes, cirrhosis of the liver, fibrosis of the lungs, cetenosis, dermal fibrotic conditions (e.g. keloids or scarring), ischaemia, strokes, hypertension, heart attacks, atherosclerosis, or infertility in mammals (e.g. humans, dogs, cats, cattle, horses, sheep, pigs, goats, or rabbits) The PRO polypeptides are useful as targets for therapeutic intervention in these diseases, and diagnostic determination of the presence of these diseases. The PRO polypeptides are also useful as molecular weight markers, or for chromosome identification. The PRO content of the presence of these diseases. The PRO genes may also be useful as the presence of therapy, genomic DNA or mRNA. The PRO genes may also be used in gene therapy, particularly for replacing a defective gene. This sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New genes and secreted and transmembrane polypeptides (e.g. PRO245 or PRO335), useful for treating or diagnosing e.g. Alzheimer's disease, cancers, hemorrhage, rheumatoid arthritis, diabetes, cirrhosis, ischemia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ME, Goddard A;
Kljavin IJ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ferrara N;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Tumas D:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 997 BP; 376 A; 189 C; 200 G; 232 T; 0 U; 0 Other;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Desnoyers L, Eaton ....

AO W, Gerber H, Gerritsen ME

C, Gurney AL, Hillan KJ, Kl

- POV MA, Stewart TA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Fong S, Gao W, Gerber H,
Grimaldi JC, Gurney AL,
an J, Paoni NF, Roy MA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 51; Page 115; 482pp; English.
                99WO-US021090.
99WO-US021547.
99WO-US023089.
                                                                                                                                                                                                                            2000WO-US003565.
2000WO-US004414.
                                                                                                                                                                                                                                                             2000WO-US005004.
                                                                                                                                                                                                                                                                                2000WO-US005841.
                                                                                                                                                                                                                                                                                                                                                   2000WO-US015264.
                                                                  99WO-US028214.
                                                                                                                                                          99WO-US030095
                                                                                                                                                                                                          2000WO-US000219.
                                                                                                                                                                                                                                                                                                                 2000WO-US008439
                                                                                                                                                                                                                                                                                                                                 2000WO-US014042
                                                                                                                                        99WO-US028565
                                                                                                                                                                        99WO-US030911
                                                                                                                                                                                            99WO-US030999
                                                                                                                                                                                                                                                                                                                                                                   2000WO-US020710
                                                                                                                                                                                                                                                                                                                                                                                     2000WO-US023328
                                                                                                                                                                                                                                                                                                                                                                                                     18-SEP-2000; 2000US-00665350
                                                                                                    99WO-US028301
                                                                                                                        99WO-US028564
                                                                                                                                                                                                                                                                                               2000WO-US007377
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Botstein D,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Wood WI;
                                                                                                                                                                                                                                                                                                                                                                                                                                      (GETH ) GENENTECH INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2003-370793/35.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pan J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       associated primer
                                                                                                                                                                                                                                                                           02-MAR-2000;
20-MAR-2000;
30-MAR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ashkenazi A,
Filvaroff E,
Godowski PJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mather JP, P
Williams PM,
                                                                                                                                                                                                                                                                                                                               22-MAY-2000;
02-JUN-2000;
                                                                29-NOV-1999;
30-NOV-1999;
01-DEC-1999;
02-DEC-1999;
                                                                                                                                                                                                                                             22-FEB-2000;
                                                                                                                                                                                                          05-JAN-2000;
                                                                                                                                                                                                                                                             24-FEB-2000;
                                                                                                                                                                                                                           11-FEB-2000;
                                                                                                                                      02-DEC-1999;
16-DEC-1999;
                                                                                                                                                                        20-DEC-1999;
20-DEC-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  or strokes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cancers,
```

997 143 27

Conservative: Length: Matches:

1.41e-72 774.00 79.07%

Percent Similarity:

Alignment Scores

Pred. No.: Score:

```
282
                                                                                                                                                                                                                                                                                                                                                                                                                                                  522
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     179
                                                                                               163 CAAATGTTCTTATGGACTGTTGCTGGGATCCCCATCCTATTCTCAGTGCCTGTTTCATC 222
                                                                                                                                                                                                                                                                               342
                                                                                                                                                                                                                                                                                                                           ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAsp 119
                                                                                                                                                                                                                                                                                                                                                                                    120 ThrGlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIle 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                642
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GCCACCATGAGAGCTCTTCAAACCCAAGGCAAAATTGGAATGATGTAACCTGTTTCCTC 702
                                                                                                                                                                                                                                                                                                         CysProLeuAsnTrpLysH1sTyrGlnSerSerCysTyrPhePheSerThrThrLeu 99
                                                                                                                                        40
                                                                                                                                                                                           ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             KW Human, PRO; secreted protein; transmembrane protein; extracellular domain; tumour necrosis factor-alpha; TNF-alpha; chondrocyte; proliferation; differentiation; cartilage disorder; bone disorder; arthritis; sports injury; cancer; tumour; diagnosis; adrenal tumour; lung; colon; brasst; prostate; kidney; rectum; colon; brasst; prostate; kidney; rectum; antiarthritic; vulnerary; gene therapy; gene; ss.
                                                                                                                                                                                                                         223 ACCAGATGTGTGTGACATTTCGCATCTTTCAAACCTGTGATGAGAAAAAGTTTCAGCTA
                                                                                                                                                                                                                                                     60 HisArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys
                                                                                                                                                                                                                                                                     283 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAAAATTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                  GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer
                                                                                                                                        GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human secreted polypeptide PRO244-encoding cDNA, SEQ ID NO:23.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SerMetProTrpileCysGluMetProGluileSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AATTATTTTCGGATTTGTGAAATGGTAGGAATAAATCCTTTGAAC 747
 2 2 43
               Indel8:
                           Gaps:
                                                       US-10-812-620-2 (1-214) x ACD07717 (1-997)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ВР
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACF20120 standard; cDNA; 997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            18-SEP-2003 (first entry)
66.51%
65.65%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          US2003040063-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    27-FEB-2003
                                                                                                                                                                                                                                                                                                            80
                                                                                                                                                                                                                                                                                                                                                                    100
                                                                                                                                                                                                                                                                                                                                                                                               403
                                                                                                                                                                                                                                                                                                                                                                                                                                                     463
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        643
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             703
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACF20120;
                                                                                                                                                                                               41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     200
                                                                                                                                          77
               Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                           g
                                                                                                                                          ò
                                                                                                                                                                  셤
                                                                                                                                                                                              δ
                                                                                                                                                                                                                       g
                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                               d
                                                                                                                                                                                                                                                                                                            ò
                                                                                                                                                                                                                                                                                                                                    g
                                                                                                                                                                                                                                                                                                                                                                    ò
                                                                                                                                                                                                                                                                                                                                                                                            q
                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                  엄
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     à
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               임
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
```

```
98US-0088217P.
98US-0088655P.
98US-0088612P.
98US-0088712P.
98US-0088712P.
98US-0088712P.
98US-0088811P.
98US-0088811P.
98US-0088812P.
98US-0088812P.
98US-0089512P.
98US-0089512P.
98US-0089512P.
98US-0089512P.
98US-0089512P.
98US-0089512P.
98US-0089512P.
98US-0089512P.
98US-0089512P.
98US-0089512P.
98US-0090668P.
98US-0090668P.
98US-0090668P.
98US-0090669P.
98US-0090669P.
98US-009162P.
98US-009069P.
98US-009069P.
98US-009069P.
98US-009069P.
98US-009069P.
98US-009069P.
98US-009069P.
98US-009069P.
98US-009069P.
98US-009069P.
98US-009069P.
98US-009069P.
98US-009069P.
98US-009069P.
98US-009069P.
98US-009069P.
98US-009069P.
98US-009069P.
98US-009069P.
98US-009069P.
98US-009069P.
98US-009069P.
98US-009069P.
98US-009069P.
98US-00909P.
05 - JUN - 1998;

10 - JUN - 1998;

10 - JUN - 1998;

10 - JUN - 1998;

11 - JUN - 1998;

11 - JUN - 1998;

12 - JUN - 1998;

13 - JUN - 1998;

14 - JUN - 1998;

17 - JUN - 1998;

18 - JUN - 1998;

19 - JUN - 1998;

17 - JUN - 1998;

18 - JUN - 1998;

18 - JUN - 1998;

19 - JUN - 1998;

22 - JUN - 1998;

24 - JUN - 1998;

24 - JUN - 1998;

24 - JUN - 1998;

25 - JUN - 1998;

26 - JUN - 1998;

27 - JUN - 1998;

27 - JUN - 1998;

27 - JUN - 1998;

27 - JUN - 1998;

27 - JUN - 1998;

27 - JUN - 1998;

27 - JUN - 1998;

27 - JUN - 1998;

27 - JUN - 1998;

27 - JUN - 1998;

27 - JUN - 1998;

27 - JUN - 1998;

27 - JUN - 1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10-AUG-1998
110-AUG-1998
17-AUG-1998
17-AUG-1998
17-AUG-1998
18-AUG-1998
18-AUG-1998
18-AUG-1998
26-AUG-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            02-JUL-1998;
02-JUL-1998;
24-JUL-1998;
04-AUG-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         02-SEP-1998;
09-SEP-1998;
10-SEP-1998;
    970S-0059263P.
970S-0059266P.
970S-0063266P.
970S-0063121P.
970S-0063121P.
970S-0063121P.
970S-0063131P.
970S-0063131P.
970S-0063334P.
970S-0063131P.
970S-0063131P.
970S-0063131P.
970S-0063132P.
970S-0063132P.
970S-0063132P.
970S-0063132P.
970S-0063132P.
970S-0063132P.
970S-0063132P.
970S-0063134P.
970S-0063134P.
970S-0063134P.
970S-0063134P.
970S-0063134P.
970S-0063134P.
970S-0063134P.
970S-0063134P.
970S-0063134P.
970S-0063134P.
970S-006314P.
970S-0063134P.
970S-0063134P.
970S-0063134P.
970S-0063134P.
970S-0063134P.
970S-0063134P.
970S-0063134P.
970S-0063134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
970S-0083134P.
                2002US-00183006
               26-JUN-2002;
                                         18 - SEP - 1997;
18 - SEP - 1997;
17 - CT - 1997;
24 - OCT - 1997;
28 - OCT - 1997;
28 - OCT - 1997;
28 - OCT - 1997;
29 - OCT - 1997;
29 - OCT - 1997;
21 - OCT - 1997;
21 - OCT - 1997;
22 - OCT - 1997;
23 - OCT - 1997;
24 - NOV - 1997;
25 - OCT - 1997;
26 - OCT - 1997;
27 - NOV - 1997;
28 - OCT - 1997;
29 - OCT - 1997;
21 - OCT - 1997;
21 - OCT - 1997;
22 - OCT - 1997;
23 - OCT - 1998;
24 - OCT - 1998;
25 - OCT - 1998;
26 - OCT - 1998;
27 - OCT - 1998;
27 - OCT - 1998;
28 - OCT - 1998;
29 - OCT - 1998;
29 - OCT - 1998;
29 - OCT - 1998;
29 - OCT - 1998;
29 - OCT - 1998;
29 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1998;
20 - OCT - 1999;
20 - OCT - 1999;
20 - OCT - 1999;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
20 - OCT - 1997;
21 - OCT - 1997;
21 - OCT - 1997;
22 - OCT - 1997;
23 - OCT - 1997;
24 - OCT - 1997;
25 - OCT - 1997;
26 - OCT - 1997;
27 - OCT - 1997;
28 - OCT - 1997;
28 - OCT - 1997;
29 - OCT - 1997;
20 - OC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15-MAY-1998;
15-MAY-1998;
15-MAY-1998;
18-MAY-1998;
22-MAY-1998;
22-MAY-1998;
28-MAY-1998;
28-MAY-1998;
02-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1-JUN-1998;
1-JUN-1998;
1-JUN-1998;
1-JUN-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       5-JUN-1998;
5-JUN-1998;
5-JUN-1998;
```

```
222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ThrTrpSerSerSerLeuLygAsnCygSerAspMetGlyAlaHisLeuValVallleAsp 119 :::|||:::|||||||||||||||||||:::
TCCTGGGCGTTAAGTTTAAAGAACTGCTCAGCCATGGGGGCTCACCTGGTGGTGTTAACAAC 462
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ThrargcysValValThrTyrargSerSerGlnIleSerGlyGln---AsnLeuGlnPro 59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeu 99
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          283 CCTGAGAATTTCACAGAGCTCTCCTGCTACAATTATGGATCAGGTTCAGTCAAGAATTGT 342
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      79
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GlnValLeuSerTrpThr1leAlaGlyAlaSer1leLeuPheLeuSerGlyCysPhelle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HisArgAsnlleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ThrGlnGluGluGluDheLeuPheArgThrLysProLysArgLysGluPheTyrIle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      997
143
27
2
2
2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length:
Matches:
Conservative:
Mismatches:
Indels:
Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                US-10-812-620-2 (1-214) x ACF20120 (1-997)
98US-0099754P.
98US-0099753P.
98US-010038BP.
98US-0100662P.
98US-0100663P.
98US-0100663P.
98US-0100681P.
98US-0100919P.
98US-0100919P.
98US-0100919P.
98US-01014P.
98US-01014P.
98US-01014P.
98US-01014P.
98US-01014P.
98US-010173P.
98US-010173P.
98US-010173BP.
98US-010173BP.
98US-010173BP.
98US-010173BP.
98US-010173BP.
98US-010173BP.
98US-010173BP.
98US-010173BP.
98US-010173BP.
98US-010237P.
98US-010237P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1.41e-72
774.00
79.07%
66.51%
65.65%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Percent Similarity:
Best Local Similarity:
Query Match:
DB:
 10 - SEP - 1998

10 - SEP - 1998

15 - SEP - 1998

16 - SEP - 1998

17 - SEP - 1998

17 - SEP - 1998

17 - SEP - 1998

17 - SEP - 1998

17 - SEP - 1998

18 - SEP - 1998

18 - SEP - 1998

18 - SEP - 1998

23 - SEP - 1998

24 - SEP - 1998

25 - SEP - 1998

27 - SEP - 1998

28 - SEP - 1998

29 - SEP - 1998

21 - SEP - 1998

22 - SEP - 1998

23 - SEP - 1998

24 - SEP - 1998

25 - SEP - 1998

26 - SEP - 1998

27 - SEP - 1998

28 - SEP - 1998

29 - SEP - 1998

29 - SEP - 1998

20 - SEP - 1998

21 - SEP - 1998

22 - SEP - 1998

24 - SEP - 1998

25 - SEP - 1998

26 - SEP - 1998

27 - SEP - 1998

28 - SEP - 1998

28 - SEP - 1998

29 - SEP - 1998

29 - SEP - 1998

29 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

21 - SEP - 1998

22 - SEP - 1998

23 - SEP - 1998

24 - SEP - 1998

25 - SEP - 1998

26 - SEP - 1998

27 - SEP - 1998

28 - SEP - 1998

28 - SEP - 1998

29 - SEP - 1998

29 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

21 - SEP - 1998

22 - SEP - 1998

23 - SEP - 1998

24 - SEP - 1998

25 - SEP - 1998

26 - SEP - 1998

27 - SEP - 1998

28 - SEP - 1998

29 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - SEP - 1998

20 - S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Alignment Scores:
Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29-SEP-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        29-SEP-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            29-SEP-1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                223
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     343
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ч
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            403
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     163
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  120
   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8 8 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    쉽
```

```
582
                                    642
GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys
                             SerMetProTrp11eCysGluMetProGluI1eSerProLeuAsp 214
                                                                                       attattttcggatttctgaaatggtaggaataaatcctttgaac 747
                                                                                                                   Search completed: June 9, 2005, 14:18:24 Job time: 547 secs
                                    583
                                                   180
                                                                 643
                                                                                200
                                                                                               703
         523
                       160
        g
                  ò
                                g
                                               ò
                                                             셤
                                                                                ò
                                                                                             g
```

ur95f12.y BY200082

BY172432

BY207927

BY203558 UI-H-FT1-BY177981 BY179745

AGENCOURT

BB850328

BY184536 BY155120 BY161254 BY167126

```
Shibata,K., Itoh,M., Aizawa,K., Nagaoka,S., Sasaki,N., Carninci,P., Konno,H., Akiyama,J., Nishi,K., Kitsunai,T., Tashiro,H., Itoh,M., Sumi,N., Ishii,Y., Nakamura,S., Hazama,M., Nishine,T., Harada,A., Yamamoto,R., Matsumoto,H., Sakaguchi,S., Ikegami,T., Kashiwagi,K.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   HTC 03-APR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y. Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new Genome Res. 10 (10), 1617-1630 (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AK089286
Mus musculus B6-derived CD11 +ve dendritic cells cDNA, RIKEN full-length enriched library, clone: F730001C01 product:C-type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 9, full insert sequence.
                          BEY743813
BEY74388
BEX719188
BEX116799
CV025793
CV025793
CV025793
CV0257836
CED528936
CED528936
CED528937
CED742945
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01225
BYZ01224
BYZ01225
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
BYZ01224
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Carninci, P. and Hayashizaki, Y.
High-efficiency full-length cDNA cloning
Meth. Enzymol. 303, 19-44 (1999)
9279253
10349636
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ALIGNMENTS
                                                                                                                                                                                BQ004812
CD742945
BB860060
                                                                                                                                                                                                                         CD368203
BY201224
BY161340
BY161525
                                                                                                                                                                                                                                                                                                                                                                                                                                                        BY184536
BY155120
                                                                                                              BG164873
CD364806
                                                                                                                                                     CB474859
CB453374
                                                                                                                                                                                                                                                                                                                                                                                                              BM561994
BB850328
                                                                                              CN480864
                                                                                                                                                                                                                                                                                                BY200082
                                                                                                                                                                                                                                                                                                              BY172432
                                                                                                                                                                                                                                                                                  AW908017
                                                                                                                                                                                                                                                                                                                            BY207927
                                                                                                                                                                                                                                                                                                                                                       BY177981
                                                                                                                                                                                                                                                                                                                                                                                   BY203558
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BY167126
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mus musculus (house mouse)
Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AK089286.1 GI:26105181
HTC; CAP trapper.
                                                                                              49.5
                                                                                                                                                                                                                                                                                                                                          45.7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AK089286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           11042159
                          905
808
735.5
730
725
687.5
660.5
649.5
631
625.5
                                                                                                                                                                                                                         606
602
602
584
579
579
579
579
511
511
511
511
511
511
511
510
505
649
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE
AUTHORS
TITLE
JOURNAL
MEDLINE
PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JOURNAL
MEDLINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RESULT 1
AK089286
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE
Command line parameters:
-MODBL=frame+ p2n.model -DEV=x1h
-Q=/cgn2_1/USPTO_epool/US10812620/runat_07062005_124337_3256/app_query.fasta_1.391
-Q=/cgn2_1/USPTO_epool/US10812620.runat_07062005_124337_3256/app_query.fasta_1.391
-Q=/cgn2_1/USPTO_epool/US10812620.rst -MINMATCH=0.1 -LOOPCL=0 -LOOPEXT=0
-UNTS=b1ts -STRAT=1 -END=-1 -MATRIX=b10sum62 -TRANS=human40.cdi -LIST=45
-USTS=b1ts -STRAT=1 -END=-1 -MATRIX=b10sum62 -TRANS=human40.cdi -LIST=45
-USTPMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=200000000
-USER=US10812620 @CGN 1 1 4352_@runat_07062005_124337_3256'-NCPU=6 -ICPU=3
-NOWAMAP -LARGEQUER* NEG SCORRES-0 -WAIT -DSPBLOCK=100 -LONGLOG
-DBV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -PGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AK089286 Mus muscu
BE222395 601057892
BY743963 BY743963
BG080418 H3053D08-
BY747840 BY747840
AK036493 Mus muscu
BY744630 BY744630
BY749084 BY749084
                                                                                              ; Search time 3168 Seconds (without alignments) 2571.261 Million cell updates/sec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Description
                                                                                                                                                                                1 MNSTKSPASHHTERGCFKNS.....IPCFYSMPWICEMPEISPLD
                                                                                                                                                                                                                                                                                                                            68479088
           5.1.6
Compugen Ltd.
                                                                   nucleic search, using frame_plus_p2n model
                                                                                                                                                                                                                                                                                                34239544 segs, 19032134700 residues
                                                                                                                                                                                                                                                                                                                          hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SUMMARIES
              GenCore version
Copyright (c) 1993 - 2005
                                                                                                                                                                                                                                                                                                                                                                                              Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                           0.5
7.0
7.0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AK089286
BE292395
BY743963
BG080418
BY747840
AK036493
BY744630
BY749084
                                                                                               9, 2005, 12:24:29
                                                                                                                                                                                                                         Xgapext
Ygapext
Fgapext
Delext
                                                                                                                                                                                                                                                                                                                                                      length: 0
length: 2000000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      09
                                                                                                                                                    US-10-812-620-2
                                                                                                                                                                                                                        Xgapop 10.0 , X
Ygapop 10.0 , Y
Fgapop 6.0 , F
Delop 6.0 , D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9b est1: *
9b est2: *
9b est4: *
9b est4: *
9b est4: *
9b est6: *
9b est6: *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2233
660
717
644
667
4017
674
655
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length
                                                                                                                                                                                                             BLOSUM62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query
Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                94.7
85.0
81.6
80.1
80.1
79.9
                                                                                                                                                                                                                                                                                                                                                                                                 Post-processing:
                                                                                                                                                                                                                                                                                                                            οŧ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1116
1002.5
961.5
944.5
944.5
942
942
936
```

Database

Minimum DB seq Maximum DB seq

Total number

Perfect score:

Sequence:

protein

ĕ

Run on:

Scoring table:

genee

Score

Š Result

9

REFERENCE AUTHORS

JOURNAL REFERENCE

TITLE

JOURNAL

TITLE

MEDLINE PUBMED JOURNAL

2

```
BE292395 660 bp mRNA linear EST 26-OCT-2000 00057892F1 NCI_CGAP_Mam6 Mus musculus CDNA clone IMAGE:3158063 5',
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ThrThrLeuThrTrpSerSerSerSerLeuLy8AsnCy8SerAspMetGlyAlaHisLeuVal 116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             157 ProPheThrGluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuVal 176
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCTTTCACAGAGTCCCTGAGCTTCTGGGATGCTGGGGGAGCCCAACAATATAGTTTTGGTG 722
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GluAspCysAlaThrIleArgAspSerSerAsnSerArgLysAsnTrpAsnAspIlePro 196
                                                                                                                                                                                                                                                                                                                                                                                                                244 ACCAGATGTGTGGTAACATATGGCTGCTGTCAAATTTCCGGGCAGAACTTACAGCCACAT 303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   364 CAGAATCATTAGCAAAGTTTCTGGGCAATGTCTGAAGCCTTTCTCCTCTTAGGTTCAGTC 423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        424 AAGAATTGCTGTCCTTTGAACTGGAAACATTATCAATCTAGTTGTTATTTTTTTCTCTACG 483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ValileAspThrGlnGluGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGlu 136
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          137 PheTyrileGlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThr 156
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              723 GAGGACTGTGCCACCATAAGGGACTCTTCAAACTCCAGGAAGATCTGGAATGATATACCC 782
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;
Mammalia; Butheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 660)
                                                                                                                                                                                                                                                       21 GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle 40
                                                                                                                                                                          184 CAAGTGCTCTCCTGGACGATAGCCGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LysAsnCysCysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThr
                                                                                                                                                                                                                                                                                                                                                                          41 ThrargCysValValThrTyrArgSerSerGlnIleSerGlyGlnAsnLeuGlnProHis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GTTATCGACACACAGGAAGAGCAGGAATTCCTTTTTCGCACAAAACCTAAAAGGAAAGAG
                                                                                                                                                MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  603 rrrrararregacreacacacacacacacacacacacacacacacacacaaracaraca
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      74 ------GlySerVal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INT-MGC http://mgc.nci.nih.gov/.
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished (1999)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CysPheTyrSerMetProTrplleCyaGluMetProGlulleSerProLeuAap 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        783 retrictacacitarecerrecarricteacareceacaaaraacrecereaac 836
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Contact: Robert Strausberg, Ph.D.
Bmall: GgapDs-r@mail.nih.gov
Tissue Procurement: Jeffrey Green M.D.
cDNA Library Preparation: Life Technologies, Inc.
  25
1
Indel8:
                             Gaps:
                                                                                     US-10-812-620-2 (1-214) x AK089286 (1-2233)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BE292395.1 GI:9174758
94.66%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        543
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  663
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         197
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                117
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       177
  Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LOCUS
DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AUTHORS
TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RESULT 2
BE292395
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            g
                                                                                                                                             ò
                                                                                                                                                                                                  유
                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                          ò
                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ŝ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ઠે
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ð
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          be tobases I to 2233.

be tobases I to 2234.

Rukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizume, W., Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizume, W., Fukuda, S., Furuno, M., Harandoto, K., Hirackar, T., Hirozane, T., Horzi, F., Ishi, Y., Ishi, Y., Itoh, M., Kagawa, I., Kasukawa, T., Katoh, H., Kawai, J., Kojima, Y., Kondo, S., Konno, H., Kouda, M., Koya, S., Kuirhara, K., Marsuyama, T., Miyazaki, M., Mohato, M., Ohsato, N., Nakamura, M., Nishi, K., Nomura, K., Numazaki, R., Ohno, M., Ohsato, N., Santo, R., Saltoh, H., Sakai, C., Sakai, K., Sakazume, N., Sagab, Y., Tagami, M., Tagawa, A., Takahashi, F., Takaha-Akhira, S., Takeda, Y., Tanaka, T., Tomaru, A., Toya, T., Yasunishi, A., Direct Submission and Hayashizaki, Y.

Sogabe, Y., Tanaka, T., Tomaru, A., Toya, T., Yasunishi, A., Direct Submission and Chemical Research (RIKEN) Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Vokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan (B-mail:genome-resegge: riken.jp, RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Managawa 230-0045, Japan (B-mail:genome-resegge: riken.jp, RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group Division of Experimental Animal Research in Riken contributed to prepare mouse tissues.

Tissues were provided by Dr. John Todd (Dept. of Medical Genetics Trissues were provided by Dr. John Todd (Dept. of Medical Genetics Welloom-Trust/MRC building Addenbrookes Hospital Cambridge) whose assistance we gratefully acknowledge.

Please visit our web site for further details.

Ruchtp://fantom.gsc.riken.jp/, URL:http://fantom.gsc.riken.jp/, URL:http://fantom.gsc.riken.jp/, URL:http://fantom.gsc.riken.jp/, URL:http://fantom.gsc.riken.jp/, URL:http://fantom.gsc.riken.jp/, URL:http://fantom.gsc.riken.jp/, URL:http://fantom.gsc.riken.jp/, URL:http://gsc.gsc.gsc.gsc.gsc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /organism="Mus musculus"
/mol type="mRNA"
/strain="C57BL/6J"
/db_xref="FANTOM DB:F730001C01"
/db_xref="taxon:10090"
/db_xref="taxon:10090"
/clone="taxon:10090"
/cell_type="B6-derived CD11 +ve dendritic cells"
/clone_lib="RIKEN full-length enriched mouse cDNA library"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /note="C-type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 9 (MGD|MGI:1861232, GB|NM_019948, evidence: BLASTN, 99%, match=1386)"
Fujiwake,S., Inoue,K., Togawa,Y., Izawa,M., Ohara,E., Watahiki,M., Yoneda,Y., Ishkawa,T., Ozawa,K., Tanaka,T., Matsuura,S., Kawai,J., Okazaki,Y., Ishkawa,T., Inoue,Y., Kira,A. and Hayashizaki,Y. RIKEN integrated sequence analysis (RISA) system--384-format gequencing pipeline with 384 multicapillary sequencer Genome Res. 10 (11), 1757-1771 (2000)
                                                                                                                                                                                                                                                                                                                                                                                                 The FANTOM Consortium and the RIKEN Genome Exploration Research Group Phase I & II Team.
Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs
Nature 420, 563-573 (2002)
6 (bases 1 to 2233)
                                                                                                                                                                                                                                                             The RIKEN Genome Exploration Research Group Phase II Team and the
                                                                                                                                                                                                                                                                                          FANTOM Consortium.
Functional annotation of a full-length mouse cDNA collection
Nature 409, 685-690 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2233
211
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length:
Matches:
Conservative:
Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             3.36e-111
1116.00
88.66%
88.66%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                        11076861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             misc_feature
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Bource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pred. No.:
                                                                                                                                                                                                                                  REFERENCE
AUTHORS
```

TITLE JOURNAL

COMMENT

FEATURES

ORIGIN

Score:

602

```
602 CCACCATAAGGGATTCTTC-AACTCCCGGGAAAACTGGATGAATTTCCCG---TTTTACA 657
                                                                                                                                                                                                                                                                  Mus musculus (house mouse)
                                                                                                                                                                                                                               BY743963.1 GI:27170313
                                                                                                                                                                                                                                                                                       Mus musculus
                                        200 er 200
                                                                           GT 659
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2466851
                                                                                                                                                                                                                                                  EST.
                                                                             658
                                                                                                                                                                       DEFINITION
                                                                                                                                                                                                                                                                                     ORGANISM
                                                                                                                                                                                                          ACCESSION
VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE
PUBMED
COMMENT
                                                                                                                                                                                                                                                                                                                                            REFERENCE
                                                                                                                                                                                                                                                                                                                                                               AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              JOURNAL
                                                                                                                  RESULT 3
                                                                                                                                  BY743963
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           TITLE
                                                                             엄
                                        δ
                                                                                                                                                                                                                                                                                                                                      /clone_lib="NCI_CGAP_Mam6"
/note="Organ: mammary; Vector: pCWV-SPORT6; Site_1: Sall;
Site_2: Not1; Cloned unidirectionally. Primer: Oligo dT.
Library constructed by Life Technologies. Investigator
providing samples: Jeffrey Green, M.D., NIH"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeuThr 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValVal11eAspThr 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    362 IGGTCATCAAGTTTAAAGAATTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACA 421
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GlnGluGluGluPheLeuPheArgThrLysProLysArgLysGluPheTyrlleGly 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThrGlu 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SerLeuSerPheTrpAsp-AlaGlyGluProAsnAsn1leValLeuValGlu-AspCysA 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             180 laThrileArgAspSerSerAsnSerAsrgLysAsnTrpAsnAspIleProCysPheTyrS 200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      422 CAGGAAGAGCAGGAATTCCTTTTTCGCACAAACCTAAAAGGAAAGAGTTTTATATTGGA 481
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             242 AGAAATATTAAGGAGCTTTCCTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGT 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGlnAsnLeuGlnProHis 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCysCys 80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 MetagnSerThrLygSerProAlaSerHigHhrGluargGlyCygPheLygAgnSer 20
                                        ğ
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL) DNA Sequencing by: Incyte Genomica, Inc. Clone distribution: MGC clone distribution information can found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov.row: g column: 24 Plate: LLAN7650 row: g column: 24 High quality sequence gtop: 625.
                                                                                                                                                                                                                                                                /eex="female, virgin"
/tissue type="infiltrating ductal carcinoma"
/dev gtage="5 months"
/dab host="DB10B"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              660
1194
2
3
3
1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                     l. .660
/organism="Mus musculus"
                                                                                                                                                                                                                         /db_xref="taxon:10090"
/clone="IMAGE:3158063"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            US-10-812-620-2 (1-214) x BE292395 (1-660)
                                                                                                                                  Location/Qualifiers
                                                                                                                                                                                        /mol_type="mRNA"
/strain="FVB/N"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1.7e-99
1002.50
97.03*
96.04*
85.03$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pred. No.:
                                                                                                                                  FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                     ORIGIN
```

셤

8

셤 8 g δ 셤 ò 쉱 ઠે 셤 ò 셤 ò

ઠ

g

ò

Standard, Y., Furuno, W., Kasukawa, T., Adachi, J., Bono, H., Kondo, S., Nikaido, I., Osato, N., Saito, R., Suzuki, H., Yamanaka, I., Kiyosawa, H., Yagi, K., Tomaru, Y., Hasegawa, Y., Nogami, A., Kiyosawa, H., Yagi, K., Tomaru, Y., Hasegawa, Y., Nogami, A., Schonbach, C., Golobori, T., Baldarelli, R., Hill, D. P., Bult, C., Chrafil, L. M., Kanapin, A., Mersuda, H., Batalov, S., Beisel, K.W., Blake, J.A., Bradt, D., Brusic, V., Chothia, C., Corbani, L. B., Cousing, S., Dragani, T.A., Fletcher, C.F., Forreag, A., Karaer, K.S., Gasaterland, T., Gariboldi, M., Gissi, C., Godzik, A., Gough, J., Grimmond, S., Kawaji, H., Kawasawa, Y., Ledaristi, R.M., King, B. L., Konagani, A., Kurochkin, I.V., Lee, Y., Lendard, B., Lyons, P.A., Maglott, D.R., Kawaji, H., Yo, Lee, Y., Lendard, B., Lyons, P.A., Maglott, D.R., Nanata, K., Okido, T., Pevan, W. J., Pertea, G., Pesole, G., Petroveky, N., Pillai, R., Pontius, J.U., Qi, D., Ramachandran, S., Ravasi, T., Reed, J. C., Reed, D.J., Reid, J., Ring, B. Z., Ringwald, M., Sandellin, A., Schneider, C., Semple, C.A., Yangisawa, M., Yang, L., Yuan, Z., Zavolan, M., Zhu, Y., Yang, Sato, M., Yang, L., Yuan, Z., Zavolan, M., Zhu, Y., Yangsawa, T., Fukuda, S., Haraka, T., Konno, H., Nakamura, M., Sato, K., Shiraki, T., Waki, K., Kawai, J., Nakawa, T., Pukuda, S., Hara, A., Hashizume, W., Imotani, K., Ishii, Y., Itoh, M., Kagawa, I., Myyazaki, A., Sakai, K., Sasaki, D., Sabaki, D., Shibate, K., Shinagawa, A., Yasunishi, A., Yoshino, M., Waterston, R., Lander, E.S., Rogera, J., Birney, R. and Hayashizaki, Y., Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNs BY743963 RIKEN full-length enriched, bone marrow macrophage Mus musculus cDNA clone I830025C13 5', mRNA sequence. Contact: Yoshihide Hayashizaki Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute The Institute of Physical and Chemical Research (RIKEN) The Institute of Physical and Chemical Research (1800) The Institute of Physical and Chemical Research (1800) The Institute of Physical and Chemical Research (1800) The Institute of Physical and Chemical Research (1800) The Institute of Physical Advances (1800) Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. 1. (bases 1 to 717) Email: genome-resegsc.riken.jp, URL:http://genome.gsc.riken.jp/ Adachi,J. Aizawa,K., Akimura,T., Arakawa,T., Carninci,P., Fukuda,S., Hashizume,W., Hayashida,K., Hirozane,T., Hori,P., Imotani,K., Ishii,Y., Itoh,M., Kagawa,I., Kawai,J., Kojima,Y., Kondo,S., Konno,H., Koya,S., Miyazaki,A., Murata,M., Nakamura,M., Nomura,K., Numazaki,R., Ohno,M., Ohsaco,N., Saito,R., Sakazume,N., Takeda,Y., Waki,R., Watahiki,A., Muramatsu,M., and Hayashizaki,Y., Direct Submission Computational Analysis of Full-Length Mouse cDNAs Compared with Human Genome Sequences Mamm. Genome. 12, 673-677 (2001)
Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes. Genome Res. 10 (10), 1617-1630 (2000)
RIKEN integrated sequence analysis (RISA) system--384-format

```
/lab host="DH10B"
/clone_lib="NIA Mouse 15K cDNA Clone Set"
/clone_lib="NIA Mouse 15K cDNA Clone Set"
/clone_lib="NIA Mouse 15K cDNA Clone Set"
/clone is among a rearrayed set of 15,247 cIones from liberaries (including preimplantation stage embryos from unfertilized egg to blastocyst, embryonic part of E7.5 embryos, and E12.5 female mesonephros/gonad) and one newborn ovary cDNA library. Average insert size 1.5 kb. All source libraries are cloned unidirectionally with Oligo(dT)-Not primers. References include: (1)
Genome-wide expression profilling of mid-gestation placenta and embryo using a 15,000 mouse developmental cDNA microarray, 2000, Proc. Natl. Acad. Sci. U S A, 97:9127-9132; (2) Large-scale cDNA analysis reveals phased gene expression patterns during preimplantation mouse development, 2000, Development, 127: 1737-1749; (3)
Genome-wide mapping of unselected transcripts from extraembryonic tissue of 7:5-day mouse embryos reveals enrichment in the t-complex and under-representation on the X chromosome, 1998, Hum Mol Genet 7: 1967-1978."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             National Institute on Aging/National Institutes of Health 333 Cassell Drive, Sute 4000, Baltimore, MD 21224-6820, USA Email: cdna@lgsun.grc.nia.nih.gov
This clone set has been freely distributed to the community. Please visit http://lgsun.grc.nia.nih.gov/cDNA/15k.html for details. Plate: H3053 row: D column: 08 Seg primer: -21M13 Reverse High quality sequence stop: 644
                                                                                                                                                                                                              644 bp mRNA linear EST 17-DEC-2003
H3053D08-5 NIA Mouse 15K cDNA Clone Set Mus musculus cDNA clone
H3053D08 5', mRNA sequence.
            603 TCCCTGAGCTTCTGGGATGCTGGGGAGCCCAACAT-ATAGTTTTGGTGGAGGACTGTGC- 660
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus. I (basea I to 64)

Tanaka, T.S., Jaradat, S.A., Lim, M.K., Kargul, G.J., Wang, X., Grahovac, M.J., Pantano, S., Sano, Y., Piao, Y., Nagaraja, R., Doi, H., Wood, W.H. III, Becker, K.G. and Ko, M.S.H.
Genome-wide expression profiling of mid-gestation placenta and embryo using a 15,000 mouse developmental cDNA microarray
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            'sex="Clones arrayed from a variety of cDNA libraries"
'dev stage="Clones arrayed from a variety of cDNA
.ibraries"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                On Jan 26, 2001 this sequence version replaced gi:12562986.
Other ESTs: H3051D08-3
Contact: George J. Kargul
Laboratory of Genetics
                                                                   181 ThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCys
                                                                                                                              661 Accaraaggacrerreaacreecagagaa---erggargararacergr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /mol_type="mRNA"
/strain="C57BL/6J"
/db_xref="miaeST:H3053D08-5"
/db xref="taxon:10090"
/clone="H3053D08"

    644
    organism="Mus musculus"

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                            Mus musculus (house mouse)
Mus musculus
                                                                                                                                                                                                                                                                                                                                                                        BG080418.2 GI:40014148
                                                                                                                                                                                                                                                                                                                                               BG080418
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20381348
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10922068
                                                                                                                                                                                                                                                                                                                                                                     VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                              DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE
PUBMED
COMMENT
                                                                                                                                                                                                                                                                                                                                         ACCESSION
                                                                                                                                                                                        RESULT 4
BG080418
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ORIGIN
                                                                                                                              g
                                                                   δ
sequencing pipeline with 384 multicapillary sequencer. Genome Res. 10 (11), 1757-1771 (2000)
Computer-based methods for the mouse full-length cDNA encyclopedia: real-time sequence clustering for construction of a nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001) cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues.

Tissues were provided by David A. Hume (Depts. of Biochemistry and Microbiology/Parasitology Institute for Molecular Bioscience University of Queensland Brisbane, Q 4072 Australia ) whose assistance we gratefully acknowledge.
Please visit our web site (http://genome.gsc.riken.go.jp) for further details.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 121 GlnGluGluGlnGluPheLeuPheArgThrLy8ProLy8Argly8GluPheTyrIleGly 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCysAla 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            101 TrpSerSerSerLeuLyaAsnCyaSerAspMetGlyAlaHisLeuValValIleAspThr 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThrGlu 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   183 CAAGTGCTCTCCTGGACGATAGCCGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTTCATC 242
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        243 ACCAGATGTGTCGTAACATATCGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCACAT 302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             303 AGAAATATTAAGGAGCTTTCCTGCTACAGTGAGGCATCAGGTTCAGTCAAGTCAATATCTGT 362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ProleuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeuThr 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      423 TGGTCATCAAGTTTAAAGAATTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACA 482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        483 CAGGAAGAGCAGGAATTCCTTTTTCGCACANAACCTANAAGGAAAGAGTTTTATATTGGA 542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                543 CTGACAGACCAGGTGGTGGAGGGTCAGTGGCAATGGGTGGATGATACACCTTTCACAGAG 602
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       123 ATGAATTCAACCAAATCGCCTGCATCCCACCACACAGAGGAGGATGCTTCAAAAACTCC 182
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     61 ArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCysCys 80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21 GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      41 ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGlnAsnLeuGlnProHis 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /mol_type="mRNA"
/strain="CS7BL/64"
/db xref="taxon:10090"
/clone==1830025613"
/tissue_type="bone marrow"
/clone_ltype="macrophage"
macrophage"
macrophage"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             717
187
2
7
3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        US-10-812-620-2 (1-214) x BY743963 (1-717)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6.17e-95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        961.50
95.94%
94.92%
81.55%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score:
```

셤

ò

g

ò q δ g ò g ઠે

ઠ

g

ò g ò 셤

Mon

셤 ò g ď

8 8 ठे

ò

d

Š 용 8 셤

셤 ઠે

8

```
Maltais, L., Marchionni, L., McKenzie, L., Miki, H., Nagashima, T., Numata, K., Okido, T., Pavan, W.J., Pertea, G., Pesole, G., Petrovsky, N., Pallai, K., Pontius, J.U., Odi, D., Ramachantan, S., Ravasi, T., Reed, J.C., Reed, D.J., Raid, B. Z., Ringwald, M., Sultana, R., Tarkenaka, Y., Taylor, W., Setou, M., Shimada, K., Sandelin, A., Schneider, C., Semple, C.A., Setou, M., Shimada, K., Verardo, R., Wagner, L., Wahlestedt, C., Wang, Y., Watenabe, Y., Walls, C., Wilming, L.G., Wynshaw-Boris, A., Yanagisawa, M., Yang, I., Yang, L., Yang, L., Yang, L., Yang, L., Yang, L., Yang, Y., Watenabe, Y., Hayateu, N., Sato, K., Shiraki, T., Waki, K., Kawai, J., Aizawa, K., Azawas, T., Fukuda, S., Hara, A., Hashizume, M., Imctani, P., Itoh, M., Kagawa, T., Wayazaki, A., Sakai, K., Sasaki, D., Shibata, K., Shinagawa, A., Yasunishi, A., Yoshino, M., Waterston, R., Lander, B.S., Shinagawa, A., Yasunishi, A., Yoshino, M., Waterston, R., Lander, B.S., Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute of Sciences Center(GSC), Yokohama Institute of Fariative of Physical and Chemical Research (RIKEN) 1-7-22 Suehiro-cho, Teurumi-ku, Yokohama, Kanagawa 230-0045, Japan Tel: 81-45-503-9226 Fax: 81-45-503-9226 Email: genome-resegge.riken.jp, URL:http://genome.gsc.riken.jp/ Adachi.jc., Aizawa.K., Akimura.T., Arakawa.T., Carninci.P., Rukda.S., Hashizume, W., Hayashida.K., Hirozane.T., Hori.F., Imotani.K., Ishij.Y., Itoh, M., Kagawa.I., Kawai.J., Kojima.Y., Kondo.S., Konno.H., Koya.S., Miyazaki.A., Murata.M., Nakamura.M., Nomura.K., Numazaki.R., Ohno.M., Ohsato,N., Saito,R., Sakazume,N., Sanc.H., Sasaki.D., Sato,K., Shibata.K., Shiraki.T., Tagami.M., Takeda,Y., Waki.K., Watahiki.A., Muramatsu.M., and Hayashizaki.Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Computational Analysis of Full-Length Mouse cDNAs Compared with Human Genome Sequences Mamm. Genome. 12, 673-677 (2001)
Normalization and subtraction of cap-trapper seelected cDNAs to prepare full-length cDNA libraries for trapper seelected cDNAs to prepare Genome Res. 10 (10), 1617-1630 (2000)
RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multicapillary sequencer. Genome Res. 10 (11), 1757-1771 (2000)
Computer-based methods for the mouse full-length cDNA encyclopedia: real-time sequence clustering for construction of a nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001)
CDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genome Canadomic Sciences Center and Genome Science Laboratory in RIKEN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               prepare mouse tissues.

Tissues were provided by Dr. John Todd (Dept. of Medical Genetics Wellcome Trust Centre for Molecular Mechanisms in Disease Wellcome Trust/MRC building Addenbrookes Hospital Cambridge) whose Trust/MRC building Addenbrookes Hospital Cambridge) whose sasistance we gratefully acknowledge.

Please visit our web site (http://genome.gsc.riken.go.jp) for further details.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        667
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length:
Matchem:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /db_xref="taxon:10090"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Contact: Yoshihide Hayashizaki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /clone="F630012G18"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /mol_type="mRNA"
/strain="NOD"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       12466851
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Alignment Scores:
Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               JOURNAL
MEDLINE
PUBMED
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. E. 1 (bases I to 667)

S Okazaki, Y., Furuno, M., Kasukawa, T., Adachi, J., Bono, H., Kondo, S., Nikaido, I., Osato, N., Saito, R., Suzuki, H., Yamanaka, I., Kiyosama, H., Yadi, K., Tomaru, Y., Hasegawa, Y., Nogami, A., Schonbach, C., Gojobori, T., Baldarelli, R., Hill, D. P., Bult, C., Hume, D. A., Quackenbush, J., Schriml, L. M., Kanapin, A., Matsuda, Hume, D. A., Quackenbush, J., Schriml, L. M., Kanapin, A., Matsuda, Hume, D. A., Quackenbush, J., Schriml, E. Made, D., Brusic, V., Chothia, C., Corbani, L. E., Cousins, S., Dalla, E., Dragani, T. A., Fletcher, C. F., Forrest, A., Frazer, K.S., Gaasterland, T., Garsiboldi, M., Gissi, C., Godzik, A., Gough, J., Grimmond, S., Gustincich, S., Hirokawa, N., Jackson, I. J., Jarvis, E. D., Kanai, A., Kawasawa, Y., Kedzierski, R. M., King, B. L., Konagaya, A., Kurochkin, I. V., Lee, Y., Lenhard, B., Lyons, P. A., Maglott, D. R.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EST 17-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             229 ACCAGATGTGTCGTAACATATCGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCACAT 288
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             289 AGAAATATTAAGGAGCTTTCCTGCTACAGTGAGGCATCAGGTTCAGGAATTGCTGT 348
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    349 CCTTTGAACTGGAAACATTATCAATCTAGTTGTTATTTTTTTCTCTACGACAACCATGACC 408
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TGGTCATCAAGTTTAAAGAATTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACA 468
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIleGly 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     469 CAGGAAGAGGAGAATTCCTTTTTCGCACAAACCTAAAAGGAAAGGTTTTATATATTGGA 528
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LeuThrAspGlnValValGluGlyGlnTrpClnTrpValAspAspThrProPheThrGlu 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        529 CTGACAGACCAGGTGGAGGGTCAGTGGCAATGGGTGGATGATACACCTTTCACAGAG 588
                                                                                                                                                                                                                                                                                                                                                                                                              ProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeuThr 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TrpSerSerSerLeulysAsnCysSerAspMetGlyAlaHisLeuValValIleAspThr 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 161 SerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
                                                                                                                                                                                                                                                                                                                                                                           MetAgnSerThrLygSerProAlaSerHigHigHigHuArgGlyCygPheLygAgnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         41 ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGlnAsnLeuGlnProHis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            61 ArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCysCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       589 TCCCTGAGCTTCTGGGGATGCTGGGGAGCCCAC-AATATAGTTTTGGTGGAGGACTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BY747840 linear EST 17-I
BY747840 RIKEN full-length enriched, NOD-derived CD11c +ve
dendritic cells Mus musculus CDNA clone F630012G18 5', mRNA
                                                                              644
178
0
1
1
                                                                                                   Matches:
Conservative:
Mismatches:
                                                                                                                                                                                                                 Indels:
                                                                              Length:
                                                                                                                                                                                                                                            Gaps:
                                                                                                                                                                                                                                                                                                              US-10-812-620-2 (1-214) x BG080418 (1-644)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mus musculus (house mouse)
Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BY747840.1 GI:27176343
                                                                              25e-93
                                                                                                      949.00
99.44%
99.44%
80.44%
                                                                                                                    Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        sequence.
BY747840
                                                Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                               m
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  409
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                           Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 5
BY747840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AUTHORS
```

/cell_type="NOD-derived CD11c +ve dendritic cells" /clone_lib="RIKEN full-length enriched, NOD-derived CD11c +ve dendritic cells"

ઠ 유 ò 셤 ò g δ 유 ઠે

```
Adachi, J., Alzawa, K., Akimura, T., Arakawa, T., Bono, H., Carninci, P., Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizume, W., Fukuda, S., Furuno, M., Hiranco, K., Hiraoka, T., Hirozane, T., Hayashu, M., Hiraoka, T., Hirozane, T., Hori, F., Imotani, K., Ishi, Y., Itoh, M., Kagawa, I., Kasukawa, T., Kayas, T., Masukawa, T., Kabukawa, T., Kayas, J., Murazaki, M., Murazaki, M., Murazaki, M., Murazaki, M., Murazaki, M., Murazaki, M., Murazaki, M., Murazaki, M., Musazaki, M., Ohno, M., Ohasto, N., Sano, H., Sasai, D., Shibata, K., Shinagawa, A., Shiraki, T., Tagami, M., Tagawa, A., Takahani, F., Takaku-Akahira, S., Takeda, Y., Tanaka, T., Tomaru, A., Toya, T., Yasunishi, A., Murameteu, M. and Hayashizaki, Y.

Direct Submission

L. Submitted (16-JUL-2001) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN). Laboratory for Genome Exploration Research Group, RIKEN Gonome, Calences Center (GSC), RIKEN Yokohama, 1916-1916.

RIKEN Yokohama Institute; 1-7-22 Suchiro-cho, Tsurumi-ku, Yokohama, Kanagawa 210-0045, Japana (E-mail:genome-resegge: riken:jp, Nux.:http://genome-gsc.riken:jp,                                                 Volundia, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carninci, P., Konno, H., Akiyama, J., Nishi, K., Kitsunai, T., Tashiro, H., Itoh, M., Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A., Yanamoto, R., Matsumcto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K., Fujiwake, S., Inoue, K., Tagawa, Y., Izawa, M., Ohara, E., Watahiki, M., Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsuura, S., Kawai, J., Okazaki, Y., Muramateu, M., Inoue, Y., Kira, A. and Hayashizaki, Y. RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multicapillary sequencer 2053013
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /tissue type="bone"
/clone lib=RIKEN full-length enriched mouse cDNA library"
/dev stage="adult"
1. .4017
/fores="C-type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 9 (MGD|MGI:1861232, GB|NM_019948, evidence: BLASTN, 99%, match=1386)"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Group Phase I & II Team.
Analysis of the mouse transcriptome based on functional annotation of 60,70 (ull-length cDNAs Nature 420, 563-573 (2002)
6 (bases 1 to 4017)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            the FANTOM Consortium and the RIKEN Genome Exploration Research
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 the RIKEN Genome Exploration Research Group Phase II Team and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FANTOM Consortium. Functional annotation of a full-length mouse cDNA collection
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Please visit our web site for further details. URL: http://genome.gsc.riken.jp/.URL: http://fantom.gsc.riken.jp/.Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        /mol_type="mRNA"
/strain="C57BL/6J"
/db_xref="FANTOM DB:9830118H07"
/db xref="taxon:10090"
/clone="9830118H07"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     'organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nature 409, 685-690 (2001)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       prepare mouse tissues.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                sex="male"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  .4017
                                               11042159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   11076861
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                misc_feature
                                                                                          REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE
AUTHORS
        MEDLINE
                                               PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AK036493 4017 bp mRNA linear HTC 03-APR-2004 Mus musculus adult male bone cDNA, RIKEN full-length enriched library, clone:9830118H07 product:C-type (calcium dependent, carbohydrate recognition domain) lectin, superfamily member 9, full
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K., Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y. Normalization and subtraction of eap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes Genome Res. 10 (10), 1617-1630 (2000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIleGly 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       554
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     613
                                                                                                                                                                                                                                                                                                                                                                                        134
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    195 Accadargregedaacararcgeagerereaarrreeggeagaacrracagecacar 254
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrLeuThr 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            315 CCTTTGAACTGGAAACATTATCAATCTAGTTGTTATTTTTTTCTCTACGACAACCTTGACC 374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAspThr 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThrGlu 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCysAla 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        135 CAAGTGCTCTCCTGGACGATAGCCGGGGCCTCCATGTTTTCTCAGTGGCTGTTTCATC 194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Chordata; Craniata; Vertebrata; Euteleostomi; Rodentia; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                          20
                                                                                                                                                                                                                                                                                                                                                                               255 AGAAATATTAAGGAGCTTTCCTGCTACAGTGAGGCATCAGGTTCAGGTTCAGGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCAGTTCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 495 crdacadaccacerecresecacercaerecacerecreserearearacacerracacade
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ThrArgCygValValThrTyrArgSerSerGln1leSerGlyGlnAsnLeuGlnProHis
                                                                                                                                                                                                                                                                                             MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPhetysAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21 GlnValLeuSerTrpThr1leAlaGlyAlaSer1leLeuPheLeuSerGlyCySPhe1le
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCysCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   181 ThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIlePro 196
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1373
        Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Carninci, P. and Hayashizaki, Y.
High-efficiency full-length cDNA cloning
Meth. Enzymol. 303, 19-44 (1999)
                                                                                                                             Gaps:
                                                                                                                                                                                                                   x BY747840 (1-667)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AK036493.1 GI:26085261
HTC; CAP trapper.
Mus musculus (house mouse)
Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa;
95.92%
94.39%
80.11%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         insert sequence.
                                                                                                                                                                                                                   US-10-812-620-2 (1-214)
                                  Best Local Similarity:
Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AK036493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10349636
    Percent Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     REFERENCE
AUTHORS
TITLE
JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE
PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AK036493
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE
```

g

셤 ò

ò

g

g

ò

셤

ઠ

셤

ઠે

ò

ठे

8 6 કે ò 음 ሯ 셤

```
2883
                                                                                                                                                                                                                          :::|||:::
2524 AACATTGTGACCACTGTTGGTTTTGTTATGAGCACAAAACAGGGGGCAAGGGTTTC 2583
                                                                                                                                                                                                                                                                                                                          2643
                                                                                                                                                                                                                                                                                                                                                                                  2644 AGCTCTCAAATTTCCGGGCAGAACTTACAGCCACATAGAAATATTAAGGAGCTTTCCTGC 2703
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2764 TCTAGTTGTTATTTTTCTCTACGACAACCTTGACCTGGTCATCAAGTTTAAAGAATTGC 2823
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2884 CGCACAAAACCTAAAAAGGAAAGAGTTTTATATTTGGACTGACAGACCAGGTGGTGGGGGT 2943
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           3004 GAGCCCAACAATATAGTTTTTGGTGGAGGACTGTGCCACCATAAGGGACTCTTCAAACTCC 3063
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                linear EST 17-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2704 TACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGTCCTTTGAACTGGAAACATTATCAA 2763
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SerSerCysTyrPhePheSerThrThrThrLeuThrTrpSerSerSerLeuLysAsnCys 108
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       129 ArgThrLysProLysArgLysGluPheTyrIleGlyLeuThrAspGlnValValGluGly 148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GlnTrpGlnTrpValAspAspThrProPheThrGluSerLeuSerPheTrpAspAlaGly 168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GluProAsnAsnIleValLeuValGluAspCysAlaThrIleArgAspSerSerAsnSer 188
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi, Mammalia; Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus. 1 (basea 1 to 674).

Okazaki, Y., Furuno, M., Kasukawa, T., Adachi, J., Bono, H., Kondo, S., Nikaido, I., Osato, N., Saito, R., Suzuki, H., Yamanaka, I., Schonbach, C., Gojobori, T., Baldarelli, R., Hill, D. P., Bult, C., Hume, D. A., Quackenbush, J., Schriml, L. M., Kanapin, A., Matsuda, H., Batalov, S., Beisel, K. W., Blake, J. A., Bradt, D., Brusic, V.,
                                                                                                                                                                                                                                                                                    48
                                                                                                                                                                                                                                                                                                                                                                 68
                                                                                                                                                                                                                                                                                                                                                                                                                                                88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BY744630 RIKEN full-length enriched, bone marrow macrophage Mus musculus cDNA clone I830042L06 5', mRNA sequence.
BY744630. GI:27171386
                                                                                                                                                                                                                                                                                                                                                                                                                                            TyrSerGluAlaSerGlySerValLy8AsnCy8CysProLeuAsnTrpLysHisTyrGln
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               --CysValValThrTyrArg
                                                                                                                                                                                                                                                                                                                        2584 AGCACTGAAAAGGACACAAAGCATTAACCACTTCCCTTTCCTTACAGTAACATATCGC
                                                                                                                                                                                                                                                                                                                                                             SerSerGln11eSerGlyGlnAsnLeuGlnProHisArgAsn11eLysGlubeuSerCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SerAspMetGlyAlaHisLeuValValIleAspThrGlnGluGluGluPheLeuPhe
                                                                                                                                                                                                   SerileLeuPheLeuSerGlyCysPheIleThrArg-----
                  4017
174
3
7
22
1
                                     Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        mRNA
                      ength:
                                                                                                                        Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 674 bp
                                                                                                                                                         US-10-812-620-2 (1-214) x AK036493 (1-4017)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mus musculus (house mouse)
Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       3124 GAAATAAGTCCTCTGGAC 3141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               209 GlulleSerProLeuAsp 214
                    48e-92
                                       944.00
85.92%
84.47%
80.07%
                                                    Percent Similarity:
Best Local Similarity:
Query Match:
DB:
Alignment Scores:
                                                                                                                                                                                                     31
                                                                                                                                                                                                                                                                                  43
                                                                                                                                                                                                                                                                                                                                                               49
                                                                                                                                                                                                                                                                                                                                                                                                                                            69
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           83
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2824
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   169
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BY744630
                                                                                                                                                                                                                                                                                                                   셤
                                                                                                                                                                                                                                                                                                                                                                                        g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      유
```

유 장

ò

셤

ઠે 셤 8

```
Chothia, C., Corbani, L.E., Cousins, S., Dalla, B., Dragani, T.A., Gariboldi, M., Garsi, C., Godzik, A., Gough, J., Garimond, T., Gariboldi, M., Gissi, C., Godzik, A., Gough, J., Garimond, S., Gustincich, S., Hirokawa, N., Jackson, I.J., Jarvis, E.D., Kanai, A., Kawaji, H., Kawasawa, Y., Kedzierski, R.M., King, B.L., Konagaya, A., Kurochkin, I.V., Lee, Y., Lenhard, B., Lyons, P.A., Magashima, T., Maltais, L., Marchionni, L., McKenzie, L., Miki, H., Nagashima, T., Numata, K., Okido, T., Pavan, W.J., Pertea, G., Pesole, G., Ranachandran, S., Ravasi, T., Reed, J.C., Reed, D.J., Ring, B. E., Ringwald, M., Sandelin, A., Schneider, C., Semple, C.A., Setou, M., Shimada, K., Sandelin, A., Schneider, C., Semple, C.A., Setou, M., Shimada, W., Verardo, R., Wangner, L., Wahlestedt, C., Wang, Y., Watenabe, Y., Watenaka, Y., Taylor, M.S., Teasdale, R.D., Takenabe, Y., Watenabe, Y., Wangisawa, M., Yang, I., Wanger, L., Wahlestedt, C., Wang, Y., Watenabe, Y., Wangis, J., Wangisawa, T., Zavd, M., Zhu, Y., Zimmer, A., Carnind, P., Hayarsu, N., Hirozane-Kishikawa, T., Yomno, H., Nakamura, M., Sato, K., Shiraki, T., Waki, K., Kawai, J., Aizawa, K., Itch, M., Kagawa, T., Pukuda, S., Hara, A., Hashizume, W., Incteni, M., Kagawa, T., Wayzaki, A., Sakai, K., Sasaki, D., Shibata, K., Shinagawa, A., Watunishi, A., Yoshino, M., Watunishi, A., Yoshino, M., Malyaiso G. the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Fax: 81-45-501-3016
Email: genome-resegec.riken.jp, URL:http://genome.gec.riken.jp/
Adachi,J., Aizawa,K., Akimura,T., Arakawa,T., Carninci,P.,
Fukuda,S., Hashizume,W., Hayashida,K., Hirozane,T., Hori,F.,
Imotani,K., Ishii,Y., Itoh,M., Kagawa,I., Kawai,J., Kojima,Y.,
Kondo,S., Konno,H., Koya,S., Miyazaki,A., Murata,M., Nakamura,M.,
Nomura,K., Numazaki,R., Ohno,M., Ohsato,N., Saito,R., Sakazume,N.,
Sano,H., Sasaki,D., Sato,K., Shibata,K., Shitzaki,T., Tagami,M.,
Takeda,Y., Waki,K., Watahiki,A., Muramateu,M. and Hayashizaki,Y.
Takeda,Y., Waki,K., Watahiki,A., Muramateu,M. and Hayashizaki,Y.
Takeda,Y., Waki,K., Watahiki,A., Muramateu,M. and Hayashizaki,Y.
Takeda,Y., Waki,K., Watahiki,A., Muramateu,M. and Hayashizaki,Y.
Takeda,Y., Waki,K., Watahiki,A., Muramateu,M. and Hayashizaki,Y.
Takeda,Y., Waki,K., Watahiki,A., Muramateu,M. and Hayashizaki,Y.
Takeda,Y., Waki,K., Watahiki,A., Muramateu,M. and Hayashizaki,Y.
Takeda,Y., Waki,K., Watahiki,A., Muramateu,M. and Hayashizaki,Y.
Takeda,Y., Waki,K., Watahiki,A., Muramateu,M. and Hayashizaki,Y.
Sano,H., Sasaki,D., 1617-1630 (2000)
RIKEN integrated sequence analysis (RISA) system-384-format
sequencing pipeline with 384 multicapillary sequencer. Genome
Recyclopedia: real-time sequence clustering for construction of a
nonredundant cDNA library. Genome Exploration Research Group in Riken
Genomic Sciences Center and Genome Exploration Research Group in Riken
Genomic Sciences Center and Genome Exploration Research for Riseuse
Microbiology/Parasiclology/Parasiclology/Parasiclouse Science Laboratory in Riken
University of Queensland Brisbane,Q 4072 Australia ) whose
assistance we gratefully acknowledge.
Please visit our web site (http://genome.gsc.riken.go.jp) for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan Tel: 81-45-503-9226
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            tissue_type="bone marrow"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /cell_type="macrophage"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /db_xref="taxon:10090"
/clone="1830042L06"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Contact: Yoshihide Hayashizaki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /mol_type="mRNA"
/strain="C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 22354683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE
PUBMED
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TITLE
```

ò 셤 ò ద δ 셤 ò g δ ద ઠે g ò

```
22354683
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 12466851
                                                                                                                                                                                                                                                                                                                                                                                                                                                JOURNAL
MEDLINE
PUBMED
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                        TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EST 17-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                                                    243 ACCAGATGTGTCGTAACATATCGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCACAT 302
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               482
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       542
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   661
                                                                                                                                                                                                                                                                                                                                            303 AGAAATATTAAGGAGCTTTCCTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGT 362
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             81 ProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrLeuThr 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       363 CCTTTGAACTGGAAACATTATCAATCTAGTTGTTATTTTTTTCTACGACAACCTTGACC 422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TrpSerSerSerSerLeuLy8AsnCy8SerAspMetGlyAlaHisLeuValValIleAspThr 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         121 GlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIleGly 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThrGlu 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       161 SerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCysAla 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Musinae; Mus.
1 (bases 1 to 655)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (bases 1 to 655)

(kazaki,Y., Furuno,M., Kasukawa,T., Adachi,J., Bono,H., Kondo,S., Nikaido,I., Osatto,N., Saito,R., Suzuki,H., Yamanaka,I.,
Kiyosawa,H., Yaqi,K., Tomaru,Y., Hasegawa,Y., Nogami,A.,
Schonbach,C., Gojobori,T., Baldarelli,R., Hill,D.P., Bult,C.,
Schonbach,C., Gojobori,T., Schriml,L.M., Kanaphi,A., Matsuda,H.,
Batalov,S., Beisel,K.W., Blake,J.A., Bradt,D., Brusic,V.,
Chothia,C., Corbani,L.E., Cousins,S., Dalla,E., Dragani,T.A.,
Fletcher,C.F., Forrest,A., Frazer,K.S., Gaasterland,T.,
Gariboldi,M., Gissi,C., Godzik,A., Gough,J., Grimmond,S.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGlnAsnLeuGlnProHis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     483 CAGGAAGAGCAGGAATTCCTTTTTCGCCACAAACCTANAAGGAAAGAGTTTTATATTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               543 CTGACAGACCAGGTGGTGGTGGGTCAGTGGCAATGGGTGGATGATACACCTTTCACAGAG
                                                                                                                                                                                                                                                                                                           1 MethenSerThrLysSerProhlaSerHisThrGluArgGlyCysPheLysAenSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerVallysAsnCysCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          423 TGGTCATCAAGTITAAAGAATTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   603 TCCCTGAGCTTCTGGGATGCTGGGGAGCCCAACAT-ATAGTTUATGGTGAAGGACTGTGCA
/clone_lib="RIKEN full-length enriched, bone marrow macrophage"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BY749084 linear EST 17-1
BY749084 RIKEN full-length enriched, NOD-derived CD11c +ve
dendritic cells Mus musculus CDNA clone F630224E05 5', mRNA
                                                                                                          674
177
0
3
3
                                                                                                      Length:
Matches:
Conservative:
Mismatches:
                                                                                                                                                                                                                          Gaps:
                                                                                                                                                                                                                                                                      (1-674)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mus musculus (house mouse)
Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BY749084.1 GI:27178286
                                                                                                                                                                                                                                                                      x BY744630
                                                                                                             7.85e-93
                                                                                                                                  942.00
98.33$
98.33$
79.90$
                                                                                                                                                                                                                                                                    US-10-812-620-2 (1-214)
                                                                                                                                                       Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ведиепсе.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BY749084
                                                                                        Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    61
                                                                                                                                                                                              Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                             ..
No..
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REFERENCE
AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             RESULT 8
BY749084
```

윱

δ 셤 ሯ

```
Gustincich, S., Hirokawa, N., Jackson, I.J., Jarvis, E.D., Kanai, A., Kawasawa, Y., Kedzierski, R.M., King, B.L., Konagaya, A., Kurochkin, I.V., Lee, Y., Lenhard, B., Lyons, P.A., Maglott, D.R., Maltais, L., Marchionni, L., McKenzie, L., Miki, H., Nagashima, T., Numata, K., Okido, T., Pavan, W.J., Pertea, G., Pesole, G., Petrovsky, N., Pillai, R., Pontius, J.U., Qi, D., Ramachandran, S., Ravasi, T., Reed, J.C., Reed, D.J., Raig, B.E., Ringwald, M., Sandelin, A., Schneider, C., Semple, C.A., Setou, M., Shimada, K., Sultana, R., Takenaka, Y., Taylor, M. S., Teasdale, R.D., Tonita, M., Verardo, R., Wagner, L., Wahlestedt, C., Wang, Y., Watenabe, Y., Wanger, L., Wanger, L., Wangerted, R.D., Yang, L., Yuan, Z., Zavolan, M., Zhu, Y., Zamer, A., Carninci, P., Hayatsu, N., Hirozane-Kishikawa, T., Komno, H., Nakamura, M., Sato, K., Shiraki, T., Waki, K., Kawai, J., Alzawa, K., Ishu, M., Sato, K., Shiraki, T., Waki, K., Kawai, J., Alzawa, T., Pukuda, S., Hara, A., Hashizum, W., Inotani, K., Ishiki, Y., Itoh, M., Kagawa, I., Miyazaki, A., Sasaki, D., Shibata, K., Shinayasa, J., Birney, E. and Hayashizaki, Y. Analysis of 60,770 full-length conactione of 60,770 full-length conactioneed annotation of 60,770 full-length conactioneed annotation of 80,770 full-length conactioneed annotation of 80,770 full-length conactioneed annotation of 80,770 full-length conactioneed annotation of 80,770 full-length conactioneed annotation of 80,770 full-length conactioneed annotation of 80,770 full-length conactions and sandayasa, A., Sato, R., Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, Sato, S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Direct Submission

Computational Analysis of Full-Length Mouse cDNAs Compared with Human Genome Sequences Mamm. Genome. 12, 673-677 (2001)

Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes. Genome Res. 10 (10), 1617-1630 (2000)

RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multicapillary sequencer. Genome Res. 10 (11), 1757-1771 (2000)

Computer-based methods for the mouse full-length cDNA construction of a nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001)

CDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues.

Tissues were provided by Dr. John Todd (Dept. of Medical Genetics Wellcome Trust (MRC building Addenbrookes Hospital Cambridge) whose assistance we gratefully acknowledge.

Please visit our web site (http://genome.gsc.riken.go.jp) for further details.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan Tel: 81-45-503-9216
Eax: 81-45-503-9216
Email: genome-res@gsc.riken.jp, URL:http://genome.gsc.riken.jp/
Adachi,J., Aizawa,K., Aximura,T., Arakawa,T., Carninci,P.,
Fukuda,S., Hashizume,W., Hayashida,K., Hirozane,T., Hori,F.,
Imotani,K., Ishi,Y., Itoh,M., Kagawa,I., Kawai,J., Kojima,Y.,
Kondo,S., Konno,H., Koya,S., Miyazaki,A., Murate,M., Nakamura,M.,
Nomura,K., Numazaki,R., Ohno,M., Ohsato,N., Saito,R., Sakazume,N.,
Sano,H., Sasaki,D., Sato,K., Shibate,K., Shiraki,T., Tagami,M.,
Takeda,Y., Waki,K., Watahiki,A., Muramateu,M. and Hayashizaki,Y.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /clone="F630224505"
/cell type="NOD-derived CD11c +ve dendritic cells"
/clone_lib="RIKEN full-length enriched, NOD-derived CD11c
+ve dendritic cells"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    'db xref="taxon:10090"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Contact: Yoshihide Hayashizaki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /mol_type="mRNA"
/strain="NOD"
```

σ

Š

g

ઠે

셤 ò

ઠે

원 장

셤

8

à

ઠે

ద

유

ò

```
Score:
Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Alignment Scores:
Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                  JOURNAL
MEDLINE
PUBMED
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FEATURES
                                                                                                                                                                                                                                                                                                                          TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                          COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Fukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Bukaryota; Metazoa; Chordata; Sciurognathi; Muridae; Murinae; Mus. E. (bases 1 to 666)

S. (bases 1 to 666)

S. (bases 1 to 666)

S. (bazaki, Y., Furuno, M., Kasukawa, T., Adachi, J., Bono, H., Kondo, S., Nikaido, I., Osato, N., Saito, R., Suzuki, H., Yamanaka, I., Kiyosawa, H., Yagi, K., Tomaru, Y., Haeegawa, Y., Nogami, A., Kiyosawa, H., Yagi, K., Tomaru, Y., Haeegawa, Y., Nogami, A., Kiyosawa, H., Yagi, K., Tomaru, Y., Haldarelli, R., Hill, D.P., Bult, C., Golbori, T., Schriml, L.M., Kanapin, A., Matsuda, H., Batalov, S., Beisel, K.W., Blake, J.A., Bradt, D., Brusic, V., Chotani, L.E., Cousins, S., Gasterland, T., Gercher, C.F., Forrest, A., Sough, J., Grimmond, S., Gustincich, S., Hirokawa, N., Jackson, I.J., Jarvis, E.D., Kanai, A., Kurochkin, I.V., Lee, Y., Lenhard, B., Lyons, P.A., Maglott, D.R., Maltais, L., Marchionni, L., McKenzie, L., Miki, H., Nagashima, T.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BY747821 BY747821 BY747821 RIKEN full-length enriched, NOD-derived CD11c +ve dendritic cells Mus musculus cDNA clone F630011J05 5', mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          TrpSerSerSerLeuLy8AsnCy8SerAspMetG]yAlaHisLeuValValI1eAspThr 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LeuThrAspGinValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThrGlu 160
                                                                                                                                                                                                                                                     243
                                                                                                                                                                                                                                                                                                                                                                                                                                                               303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ProleuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrLeuThr 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               364 ccrirgaacriggaacarrarcaarcragrigriarirrirricracgacaaccrigacc 423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        424 restcarcaderriaaagaarrestcagacarcaccrescrestestraresacaca 483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 484 CAGGAAGAGCAGGAATTCCTTTTTCGCACAAAACCTAAAAAGGAAAGAGTTTTATATTGGA 543
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        544 CTGACAGACCAGGTGGTGGAGGGTCAGTGGGTGGATGATACACCTTTCACAGAG 603
                                                                                                                                                                                                                                                                                                                     GlnValLeuSerTrpThr1leAlaGlyAlaSer1leLeuPheLeuSerGlyCysPheIle 40
                                                                                                                                                                                                                                                                                                                                                                                                                  9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                           MetAenSerThrLysSerProAlaSerHisHhrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                  ArgAsn11eLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCysCys
                                                                                                                                                                                                                                                                                                                                                                                                                ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGlnAsnLeuGlnProHis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     304 AGAAATATTAAGGAGCTTTCCTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIleGly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          161 SerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGlu 177
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  604 TCCCTGAGCTTCTGGGATGCTGGGGGGGGCCCAACAT-ATAGTTNTGGTGGAG 653
                     655
175
0
2
1
                     Length:
Matches:
Conservative:
Mismatches:
                                                                                                                                     Gaps:
                                                                                                                                                                                  (1-655)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mus musculus (house mouse)
Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BY747821.1 GI:27176312
                                                                                                                                                                                US-10-812-620-2 (1-214) x BY749084
                3.44e-92
936.00
98.87%
98.87%
79.39%
                                                                                        Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sequence.
BY747821
                                                                Percent Similarity:
Alignment Scores:
Pred. No.:
                                                                                                                                                                                                                               <del>, -1</del>
                                                                                                                                                                                                                                                                                                                     21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61
                                                                                                                                                                                                                                                                                                                                                                                                                41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               141
                                                                                                               Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BY747821
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 9
```

```
Numata,K., Okido,T., Pavan,W.J., Pertea,G., Pesole,G.,
Ravasi,T., Redd,J.C., Redd,D.J., Ridg,B.Z., Ringwald,M.,
Ravasi,T., Reed,J.C., Redd,D.J., Ridg,B.Z., Ringwald,M.,
Sandelin,A., Schneider,C., Semple,C.A., Secul,M., Shimada,K.,
Sultana,R., Takenaka,Y., Taylor,M.S., Tesedale,R.D., Tomita,M.,
Verardo,R., Wagner,L., Wahlestedt,C., Wang,Y., Watenabe,Y.,
Wells,C., Wilming,L.G., Wynshaw-Boris,A., Yanagisawa,M., Yang,L.,
Yang,L., Yuan,Z., Zavolan,M., Zhu,Y., Zimmer,A., Carninci,P.,
Rayteu,N., Hirozane-Kishikawa,T., Konno,H., Nakamura,M.,
Sakazume,N., Sarot,K., Shiraki,T., Waki,K., Kawai,J., Azawa,K.,
Arakawa,T., Fukuda,S., Hara,Hashizume,W., Imotani,K.,
Itoh,M., Kagawa,I., Miyazaki,A., Hashizume,W., Imotani,R.,
Rogers,J., Birney,E., and Hayashizaki,Y.
Analysis of the mouse transcriptome based on functional annotation
of 60,770 full-length, Conas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Fax: 81-45-50.12416

Email: genome-res@gec.riken.jp, URL:http://genome.gec.riken.jp/.
Adachi.J., Aizawa,K., Akimura,T., Arakawa,T., Carninci,P.,
Fukuda,S., Hashizune,W., Hayashida,K., Hizozane,T., Horl.F.,
Imotani,K., Ishii,Y., Itoh,M., Kagawa,I., Kawai,J., Kojina,Y.,
Kondo,S., Konno,H., Koya,S., Miyazaki,A., Murata,M., Nakamura,M.,
Nomura,K., Numazaki,R., Ohno,M., Ohsato,M., Shizaki,T., Tagami,M.,
Takeda,Y., Waki,K., Watahiki,A., Muramateu,M. and Hayashizaki,Y.
Direct Submission

Computational Analysis of Full-Length Mouse cDNAs Compared with
Human Genome Sequence Mamm. Genome. 12, 673-677 (2001)

Normalization and subtraction of cap-trapper-selected cDNAs to
prepare full-length cDNA libraries for rapid discovery of new
genes. Genome Res. 10 (10), 1617-1630 (2000)

Normalization and subtraction of cap-trapper-selected cDNAs to
prepare full-length cDNA libraries for rapid discovery of new
genes. Genome Res. 10 (10), 1617-1630 (2000)

Normalization and subtraction of carning pipeline with 384 multicapillary sequencer. Genome Res.
10 (11), 1757-1771 (2000)

Computer-based methods for the mouse full-length cDNA
encyclopedia: real-time sequence clustering for construction of a
nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001)

CDNA library was prepared and sequenced in Mouse Genome
Exploredia real-time sequence clustering for construction of Experimental Animal Research for Medical Genome Science Tissues
were provided by Dr. John Todd (Dept. of Medical Genetics
Wellcome Trust Centre for Molecular Mechanisms in Disease Wellcome
assistance we gratefully acknowledge.
Please visit our web site (http://genome.gsc.riken.go.jp) for
further details
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Contact: Yoshihide Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN Genomic
Sciences Center(GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
17-22 Suebhiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
Tel: 81-45-503-9216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /cell_type="NOD-derived CD11c +ve dendritic cells"
/clone_lib="RIKEN full-length enriched, NOD-derived CD11c
+ve dendritic cells"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  666
176
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length:
Matches:

    .666
    /organism="Mus musculus"
/mol_type="mRNA"
    /strain="NOD"

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /db_xref="taxon:10090"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 lone="F630011J05"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Nature 420, 563-573 (2002)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2.67e-91
928.00
97.78%
```

ò 유 g ò g ò ద ò 원 ò 셤 ઠે g 8

```
Computerational Analysis of Full-Length Rouse Cumba Compared with Human Genome Sequences Mamm. Genome. 12, 673-677 (2001)

Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes. Genome Res. 10 (10), 1617-1630 (2000)

RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multicapillary sequencer. Genome Res. 10 (11), 175-1771 (2000)

Computer-based methods for the mouse full-length cDNA computer-based methods for the mouse full-length cDNA computer-based methods for the mouse full-length cDNA computer cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Res. 11 (2), 281-289 (2001) cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in Riken Genomic Sciences Center and Genome Science Laboratory in Riken Division of Experimental Animal Research in Riken contributed to prepare mouse tissues.

Tissues were provided by David A. Hume ( Depts. of Biochemistry and Microbiology/Parasitology Institute for Molecular Bioscience University of Queensland Brisbane, Q 4072 Australia ) whose assistence we gartefully acknowledge.

Please visit our web site (http://genome.gsc.riken.go.jp) for further details.
Verardo, R., Wagner, L., Wahlestedt, C., Wang, Y., Watanabe, Y., Walls, C., Wilming, L.G., Wynshaw-Boris, A., Yanagisawa, M., Yang, I., Yang, L., Yanan, Z., Zavolan, M., Zhu, Y., Zimer, A., Carninci, P., Sakazume, M., Hirozane-Kishikawa, T., Konno, H., Nakamura, M., Sakazume, N., Sato, K., Shiraki, T., Waki, K., Kawai, J., Alzawa, K., Arakwa, T., Fukuda, A., Harahizume, W., Imocani, K., Ishii, Y., Arakwa, T., Kukuda, S., Hara, A., Hashizume, W., Imocani, K., Ishii, Y., Shinagawa, A., Yasunishi, A., Sakai, K., Sasaki, D., Shibata, K., Shinagawa, A., Yasunishi, A., Yoshino, M., Waterston, R., Lander, E.S., Rogers, J., Birney, E. and Hayashizaki, Y.
Analysis of the mouse transcriptome based on functional annotation of 60, 770 full-length cDNAs
                                                                                                                                                                                                                                                                                                                                                                                                                                             Contact: Yoshihide Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN Genomic
Sciences Center(GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-2 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
Tel: 81-45-503-9216
Fax: 81-45-503-9216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Email: genome-reseggec_riken.jp, URL:http://genome.gec.riken.jp/
Adachi,J., Aizawa,K., Akimura,T., Arakawa,T., Carninci,P.,
Rukuda,S., Hashizume,W., Hayashida,K., Hirozane,T., Hori,F.,
Imoteni,K., Ishii,Y., Itoh,M., Kagawa,I., Kawai,J., Kojima,Y.,
Kondo,S., Konno,H., Koya,S., Miyazaki,A., Murata,M., Nakamura,M.,
Nomura,K., Numazaki,R., Ohno,M., Ohaeto,M., Saito,R., Sakazume,N.,
Sano,H., Sasaki,D., Sato,K., Shibata,K., Shiraki,T., Tagami,M.,
Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Computational Analysis of Full-Length Mouse cDNAs Compared with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /cell_type="macrophage"
/clone_lib="RIKEN full-length enriched, bone marrow
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  728
179
0
6
31
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length:
Matches:
Conservative:
Mismatches:
Indels:
Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   'tissue_type="bone marrow"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1. .728
/organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /db_xref="taxon:10090"
/clone="G530005P16"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /mol_type="mRNA"
/strain="C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2.03e-90
920.50
83.64%
83.64%
78.07%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Percent Similarity:
Best Local Similarity:
Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                         22354683
                                                                                                                                                                                                                                                                                                                                                                                                                             12466851
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Bource
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE
PUBMED
COMMENT
                                                                                                                                                                                                                                                                                                                                                            JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 FEATURES
                                                                                                                                                                                                                                                                                               TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Fukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Butherfa; Rodentia; Sciurognathi; Muridae; Murinae; Musnabati; Puruno, M., Kasukawa, T., Adachi, J., Bono, H., Kondo, S., Nikaido, I., Osato, N., Saito, R., Suzuki, H., Yamanaka, I., Kayoawa, H., Yadi, K., Tomaru, Y., Hasqagawa, Y., Nogami, A., Schonbach, C., Gojobori, T., Baldarelli, R., Hill, D. P., Butt, C., Hume, D.A., Quackenbush, J., Schriml, L.M., Kanapin, A., Matsuda, H., Batelov, S., Batelov, K., Blake, J.A., Bradt, D., Brusic, V., Chothia, C., Corbani, L. B., Ccusins, S., Dalla, E., Dragani, T.A., Fletcher, C.F., Forrest, A., Frazer, K.S., Gaasterland, T., Gustincich, S., Hirokawa, N., Jackson, I.J., Jarvis, E.D., Kanai, A., Kawaji, H., Kawasawa, Y., Kedzierski, R.M., King, B. L., Konagaya, A., Kurochin, S., Hirokawa, N., Jackson, I.J., Jarvis, E.D., Kanai, A., Kawaji, H., Kawasawa, Y., Lenhard, B., Lyons, P.A., Maglott, D. R., Maltais, L., Marchionni, L., McKenzie, L., Miki, H., Nagashima, T., Petread, J. C., Reed, J. J., Ramachandran, S., Petread, J. C., Reed, J. C., Reed, J. C., Rengles, C. A., Sendelin, A., Schneider, C., Semple, C.A., Secou, M., Shinada, K., Sulteana, R., Takenaka, Y., Taylor, M.S., Teasdale, R.D., Tomita, M.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EST 17-DEC-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     543
                                                                                                                                                                                                                                     243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAspThr 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GlnGluGluGluPheLeuPheArgThrLysProLysArgLysGluPheTyrileGly 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThrGlu 160
                                                                                                                                                                                                                                                                                                                               40
                                                                                                                                                                                                                                                                                                                                                                                                                                                       9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BY742764 RIKEN full-length enriched, bone marrow macrophage Musmusculus cDNA clone G530005P16 5', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               304 AGAAATATTAAGGAGCTTTCCTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGT
                                                                                                                                                                                                                                                                                                                            GlnValLeuSerTrpThr1leAlaGlyAlaSer11eLeuPheLeuSerGlyCysPheIle
                                                                                                                                                                                                                                                                                                                                                                                         184 CAAGTGCTCTCCTGGACGATAGCCGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATC
                                                                                                                                                                                                                                                                                                                                                                                                                                                    ThrArgCysValValThrTyrArgSerSerGlnIleSerGlnAsnLeuGlnProHis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 244 ACCAGATGTGTCGTAACATATCGCAGCTCTCAAATTTTCCGGGCAGAACTTACAGCCACAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCysCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         364 CCTTTGAACTGGAAACATTATCAATCTAGTTGTTATTTTTTCTCTACGACAACCTTGACC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 424 TGGTCATCAAGTTTAAAGAATTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ProleuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrLeuThr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CAGGAAGAGCAGGAATTCCTTTTTCGCACAAAACCTANAAGGAAAGAGTTTTATATTTGGA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  mRNA
            Mismatches:
Indels:
                                                                       Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               728 bp
                                                                                                                                       US-10-812-620-2 (1-214) x BY747821 (1-666)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BY742764.1 GI:27168500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mus musculus
         Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 101
                                                                                                                                                                                                     H
                                                                                                                                                                                                                                                                                                                            21
                                                                                                                                                                                                                                                                                                                                                                                                                                                       41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     484
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                544
                                         Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RESULT 10
BY742764
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REFERENCE
```

g

ሯ 셤 ઠે g ò 셤 ò ద કે

g ò

```
Petrovsky, N., Pillai, R., Pontius, J.U., Qi, D., Ramachandran, S., Ravasi, T., Reed, J.C., Reed, D.J., Reid, J., Ring, B.Z., Ringwald, M., Sandelin, A., Schneider, C., Semple, C.A., Setou, M., Shimada, K., Sultana, R., Takenaka, Y., Taylor, M.S., Teasdale, R.D., Tomita, M., Verardo, R., Wagner, L., Wahlestedt, C., Wang, Y., Watanabe, Y., Wells, C., Wilming, L.G., Wynshaw Boris, A., Yanagisawa, M., Yang, I., Yang, L., Yan, Z., Zavolan, M., Zhu, Y., Zimmer, A., Carninci, P., Hayateu, N., Hirozane-Kishikawa, T., Konno, H., Nakamura, M., Sakaume, N., Sato, K., Shiraki, T., Waki, K., Kawai, J., Alzawa, K., Arakawa, T., Fukuda, S., Hara, A., Hashizune, W., Imotani, K., Ishii, Y., Itoh, M., Kagawa, I., Miyazaki, A., Sakai, K., Sasaki, D., Shibata, K., Shinagawa, A., Yasunishi, A., Yoshino, M., Waterston, R., Lander, E.S., Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Fax: 81-45-501-921e

Email: genome-res@gsc.riken.jp, URL:http://genome.gsc.riken.jp/
Adachi,J., Aizawa,K., Akimura,T., Arakawa,T., Carninci,P.,
Pukuda,S., Hashizume,W., Hayashida,K., Hizozane,T., Horl,F.,
Imotani,K., Ishii,Y., Itoh,M., Kagawa,I., Kawai,J., Kojima,Y.,
Kondo,S., Konno,H., Koya,S., Miyazaki,A., Murata,M., Nakamura,M.,
Nomura,K., Numazaki,R., Ohno,M., Obsato,N., Salto,R., Sakazume,N.,
Sano,H., Saaaki,D., Sato,K., Shibata,K., Shizaki,T., Tagami,M.,
Takeda,Y., Waki,K., Watahiki,A., Muramateu,M. and Hayashizaki,Y.
Direct Submission

Computational Analysis of Full-Length Mouse cDNAs Compared with
Human Genome Sequences Mamm. Genome. 12, 673-677 (2001)
Normalization and subtraction of cap-rapper-selected cDNAs to
prepare full-length cDNA libraries for rapid discovery of new
genes. Genome Res. 10 (10), 1617-1630 (2000)

RIKEN integrated sequence analysis (RISA) system--384-format
sequencing pipeline with 384 multicapillary sequencer. Genome Res.
10 (11), 175-1771 (2000)

Computer-based methods for the mouse full-length cDNA
encyclopedia: real-time sequence clustering for construction of a
norredundant cDNA library. Genome Res. 11 (2), 281-289 (2001)

CDNA library was prepared and sequenced in Mouse Genome
Encyclopedia Project of Genome Exploration Research Group in Riken
prepare mouse finance the contributed to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Contact: Yoshihide Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN Genomic
Sciences Center (GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
11-7-22 Suchikro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan
Fax: 81-45-503-9216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               prepare mouse tissues.

Tissues were provided by David A. Hume ( Depts. of Blochemistry and Microbiology/Parasitology Institute for Molecular Bioscience University of Queensland Brisbane, Q 4072 Australia ) whose assistance we gratefully acknowledge.

Please visit our web site (http://genome.gsc.riken.go.jp) for furthar details.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /cell_type="macrophage"
/clone_lib="RIKEN full-length enriched, bone marrow
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     645
169
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Length:
Matches:
Conservative:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /mol_type="mRNA"
/srrain="C57B1/61"
/db_xref="taxon:10090"
/clone="t830011F16"
/tissue_type="bone marrow"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              4.13e-90
917.00
98.83$
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         12466851
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Alignment Scores:
Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  JOURNAL
MEDLINE
PUBMED
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus. B. (Dasses I to 645)

S. Vazaki, Y., Furuno, M., Kasukawa, T., Adachi, J., Bono, H., Kondo, S., Nikaido, I., Osato, N., Saito, R., Suzuki, H., Yamanaka, I., Kiyosawa, H., Yaqi, K., Tomaru, Y., Hasegawa, Y., Nogami, A., Schonbach, C., Golobori, T., Baldarelli, R., Hill, D.P., Bult, C., Hume, D.A., Ouackenbush, J., Schriml, L.M., Bract, D., Brusic, V., Chothia, C., Corbani, L. E., Cousins, S., Dalla, E., Dragani, T.A., Fletcher, C.F., Forrest, A., Frazer, K.S., Gaasterland, T., Gariboldi, M., Gissi, C., Godzik, A., Gough, J., Jarvis, E.D., Kanai, A., Kawasawa, Y., Kedzierski, R. M., King, B. L., Konagaya, A., Kurochkin, I.V., Lee, Y., Lenhard, B., Lyons, P.A., Maglott, D.R., Numatas, K., Okido, T., Pavan, W.J., Pertea, G., Pesole, G.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EST 17-DEC-2002
                                                                                                                                                                                                SerLeuSerPheTrpAspAlaGlyGluProAsnAsnIeValLeuValGluAspCysAla 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyrSer 200
                                                                                                           276
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ProbeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeuThr 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAspThr 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThrGlu 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ACCATAAGGGACTCTTC-AACTCCAGGAAGAACTGGAATGATATANCCCTGTTCTACAGT 634
                                                                                                                                                                                                                                                                                                                                                                                                   TGGTCATCAAGTTTAAAGAATTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACA 396
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CAGGAAGAGCAGGAATTCCTTTTTCGCACAAAACCTAAAAGGAAAGAGTTTTATATTCGA 456
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       crdacadaccadergergaggercaerescaareserescaeresaracacerrireacasas 516
                                                                      1 MetAsnSerThrLysSerProAlaSerHisHisHisThrGluArgGlyCysPheLysAsnSer 20
                                                                                                                                                                                                                                                                                                                                   ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGlnAsnLeuGlnProHis 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                             61 ArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCysCys 80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BY743467 RIKEN full-length enriched, bone marrow macrophage Musmusculus cDNA clone I830011F16 5', mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GlnGluGluGluBheLeuPheArgThrLyaProLyaArgLysGluPheTyrIleGly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -----GGTTCAGAATTGCTGT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    linear
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       201 MetProTrplleCysGluMetProGluIleSerProLeuAsp 214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            635 ATGCCTTGGATTTGTGAGATGCCAGAAATAAGTCCTCTGGAC 676
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 645 bp
      US-10-812-620-2 (1-214) x BY742764 (1-728)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mus musculus (house mouse)
Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BY743467.1 GI:27169524
                                                                                                                                                                                                                                                                   184
                                                                                                                                                                                                                                                                                                                                   41
                                                                                                                                                                                                   21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          277
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          337
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          397
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          457
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       517
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          181
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BY743467
```

셤

셤

ò

셤

à 셤 ò

ò 셤 ò ద õ 셤 ઠે a ઠે g ò 셤 ò g ò

```
Human Genome Sequences Mamm. Genome. 12, 673-677 (2001)

Normalization and subtraction of cap-trapper-selected cDNAs to prepare full-length cDNA libraries for rapid discovery of new genes. Genome Res. 10 (10), 1617-1630 (2000)

RIKEN integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multicapillary sequencer. Genome Res. 10 (11), 1757-1771 (2000)

Computer-based methods for the mouse full-length cDNA encyclopedia: real-time sequence clustering for construction of a nonredundant cDNA library. Genome Res. 11 (21), 281-289 (2001)

CDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to
Verardo, R., Wagner, L., Wahlestedt, C., Wang, Y., Watanabe, Y., Wells, C., Wilming, L.G., Wynshaw-Boris, A., Yanagisawa, M., Yang, I., Yang, L., Yann, Z., Zavolan, M., Zhu Y., Zinu Y., Zinu Y., Zinu Y., Zaranind, P., Hayatsu, N., Hirozane-Kishikawa, T., Konno, H., Wakamura, M., Arakawa, T., Fukuda, S., Hara, A., Hashizume, W., Imotani, K., Ishii, Y., Itoh, M., Kagawa, I., Myazaki, A., Sasaki, C., Sasaki, D., Shibata, K., Shinagawa, A., Yasunishi, A., Yoshino, M., Waterston, R., Lander, E.S., Analysis of the mouse transcriptome based on functional annotation Of 60, 770 full-length CDNAs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Contact: Yoshihide Hayashizaki
Laboratory for Genome Exploration Research Group, RIKEN Genomic
Sciences Center(GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
The Institute of Physical and Chemical Research (RIKEN)
Tel: 81-45-503-922
Fax: 81-45-503-9216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Email: genome-reseggec.riken.jp, URL:http://genome.gec.riken.jp/
Adachi,J., Aizawa,K., Akimura,T., Arakawa,T., Carninci,P.,
Fukuda,S., Hashizume,W., Hayashida,K., Hirozane,T., Hori,F.,
Imotani,K., Ishii,Y., Itoh,M., Kagawa,I., Kawwi,J., Kojima,Y.,
Kondo,S., Konno,H., Koya,S., Miyazaki,A., Murata,M., Nakamura,M.,
Nomura,K., Numazaki,R., Ohno,M., Ohsato,N., Saito,R., Sakazume,N.,
Sano,H., Sasaki,D., Sato,K., Shibata,K., Shiraki,T., Tagami,M.,
Direct Submission

Computational Analysis of Full-Length Mouse cDNAs Compared with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           prepare mouse tissues.
Tissues were provided by David A. Hume ( Depts. of Biochemistry and Microbiology/Parasitology Institute for Molecular Bioscience University of Queensland Brisbane, Q 4072 Australia ) whose assistance we gratefully acknowledge.
Please visit our web site (http://genome.gsc.riken.go.jp) for further details.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /tissue_type="bone marrow"
/cell_type="macrophage"
/clone_lib="RIKEN full-length enriched, bone marrow
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    643
0 4
0 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /db_xref="taxon:10090"
/clone="1830018A02"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /mol_type="mRNA"
/strain="C57BL/6J"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    8.58e-89
905.00
97.66%
97.66%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          macrophage"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                            12466851
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               source
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pred. No.:
                                                                                                                                                                                                                                                                                                                                                                       JOURNAL
MEDLINE
PUBMED
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FEATURES
                                                                                                                                                                                                                                                                                                               TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Fukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Eukaryota; Metazoa; Chordata; Sciurognathi; Muridae; Murinae; Mus. B. (Dases I to 643)

S. Vazaki, Y., Furuno, M., Kasukawa, T., Adachi, J., Bono, H., Kondo, S., Nikaido, I., Osato, N., Saito, R., Suzuki, H., Yamanaka, I., Kiyosawa, H., Yangi, K., Tomaru, Y., Hasegawa, Y., Nogami, A., Schonbach, C., Golobori, T., Baldatelli, R., Hill, D. P., Bult, C., Hume, D.A., Quackenbush, J., Schriml, L.M., Kanapin, A., Matsuda, H., Batael, K., M., Batael, K., Batael, K., Batael, K., Batael, K., Batael, K., Goughi, J., Brater, C.F., Forrest, A., Frazer, K.S., Gaasterland, T., Gariboldi, M., Gissi, C., Godzik, A., Gough, J., Grimmond, S., Gustincich, S., Hirokawa, N., Jackson, I.J., Grimmond, S., Kawaji, H., Kawasawa, Y., Kedzierski, R.M., King, B.L., Konagaya, R., Kurcchkin, I.V., Lee, Y., Lenhard, B., Lyons, P.A., Maglott, D.R., Numata, K., Okido, T., Pavan, W.J., Pertea, G., Pescole, G., Petrovsky, N., Pillai, R., Pontius, J.U., Qi, D., Ramachandran, S., Ringwald, M., Sandelin, A., Schneider, C., Semple, C.A., Seecou, M., Shinada, K., Sultana, R., Taylor, M.S., Teasdale, R.D., Tomita, M.,
                                                                                                                                                                                                                                                                                                                                                                                    184 CAAGTGCTCTCCTGGACGATAGCCGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATC 243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeuThr 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 364 CCTTTGAACTGGAAACATTATCAATCTAGTTGTTATTTTTTTCTCTAGGACAACCTTGACC 423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TrpSerSerLeuLygAgnCygSerAspWetGlyAlaHisLeuValVal1leAspThr 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     484 CAGGAAGAGCAGGAATTCCTTTTTCGCACAAAACCTAAAAGGAAAGAGTTTTATATATGGA 543
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThrGlu 160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  544 CTGACAGACCAGGTGGTGGAGGGTCAGTGNGCATGGGTGGATGATACACCTTTCACAGAG 603
                                                                                                                                                                                                                                                   244 ACCAGATGTGTCGTAACATATCGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCACAT 303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    304 AGAAATATTAAGGAGCTTTCCTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGT 363
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      424 TGGTCATCAAGTTTAAAGAATTGCTCAGACATGGGGGCTCACCTGGTGGTTATCGACACA 483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GlnGluGluGlnGluPheLeuPheArgThrLy8ProLy8ArgLy8GluPheTyrIleGly 140
                                                                                                                                                                                                                                                                                                                                         GlnValLeuSerTrpThr1leAlaGlyAlaSer1leLeuPheLeuSerGlyCysPhe1le 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGlnAsnLeuGlnProHis 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           BY743813 RIKEN full-length enriched, bone marrow macrophage Mus
musculus cDNA clone I830018A02 5', mRNA sequence.
BY743813
                                                                                                                                                                                                            1 MetAsnSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61 ArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCysCys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    linear
                          000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     mRNA
                       Mismatches:
Indels:
                                                                                     Gaps:
                                                                                                                                                    US-10-812-620-2 (1-214) x BY743467 (1-645)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mus musculus (house mouse)
Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BY743813.1 GI:27170082
                   Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       101
                                                                                                                                                                                                                                                                                                                                         21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    121
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 81
                                                    Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BY743813
```

g

ठे

g ઠે 셤 ઠે g 셤 ઠે

ઠે

8 8

ద 8 a

```
Unject summission and subtraction of cap-trapper seelected cubble with Human Genome Sequences Mamm. Genome. 12, 673-677 (2001)

Normalization and subtraction of cap-trapper seelected cDNAs to prepare full-length cDNA libraries for trapper seelected cDNAs to prepare full-length cDNA libraries for trapper seelected cDNA normalization integrated sequence analysis (RISA) system--384-format sequencing pipeline with 384 multicapillary sequencer. Genome Res. 10 (11), 1757-1771 (2000)

Computer-based methods for the mouse full-length cDNA encyclopedia: real-time sequence clustering for construction of a nonredundant cDNA library. Genome Res. 11 (2), 281-289 (2001)

conputer based methods for sequence of in Musue Genome CDNA library was prepared and sequenced in Musue Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in Riken Genomic Sciences Center and Genome Science Laboratory in Riken Tissues were provided by Dr. John Todd (Dept. of Medical Genetics Wellcome Trust Center for Molecular Mechanisms in Disease Wellcome Trust Center for Molecular Mechanisms in Disease Wellcome assistance we gratefully acknowledge.

Please visit our web site (http://genome.gsc.riken.go.jp) for
Sakazume, N., Sato, K., Shiraki, T., Waki, K., Kawai, J., Aizawa, K., Arakawa, T., Fukuda, S., Hara, A., Hashizume, W., Imceni, K., Ishii, Y., Itoh, W., Kagawa, I., Miyazaki, A., Sakai, K., Sasaki, D., Shibata, K., Shinaqawa, A., Yasunishi, A., Yoshino, W., Waterston, R., Lander, E.S., Rogers, J., Birney, E. and Hayashizaki, Y. Marayists of Ethe mouse transcriptome based on functional annotation of 60, 770 full-length cDNAs
                                                                                                                                                                                                                                                                                                                                                                    Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center(GSC), Yokohama Institute
The Institute of Physical and Chemical Research (RIKEN)
1-7-22 Suehiro-ho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan Tel: 81-45-503-9216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Email: genome-reseggec.riken.jp, URL:http://genome.gec.riken.jp/
Adachi,J., Aizwa,K., Akimura,T., Arakawa,T., Carninci,P.,
Rukuda,S., Hashixume,W., Hayashida,K., Hirozane,T., Hori,F.,
Imoteni,K., Ishii,Y., Itoh,M., Kagawa,I., Kwawi,J., Kojima,Y.,
Kondo,S., Konno,H., Koya,S., Miyazaki,A., Murata,M., Nakamura,M.,
Nomura,K., Numazaki,R., Ohno,M., Ohasto,N., Saito,R., Sakazume,N.,
Takeda,Y., Waki,K., Watahiki,A., Muramatsu,M., and Hayashizaki,Y.
Direct Submission
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /cell_type="B6-derived CD11 +ve dendritic cells"
/clone lib="RIKEN full-length enriched, B6-derived CD11
+ve dendritic cells"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 MetagnSerThrLysSerProAlaSerHisHisHisThrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                671
156
0
3
25
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length:
Matches:
Conservative:
Mismatches:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               organism="Mus musculus"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /mol_type="mRNA"
/strain="C57BL/6J"
/db_xref="taxon:10090"
/clone="F730001C01"
                                                                                                                                                                                                                                                                                                                                            Contact: Yoshihide Hayashizaki
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  US-10-812-620-2 (1-214) x BY749488 (1-671)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4.22e-78
808.00
85.25%
85.25%
68.53%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   details.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Percent Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pred. No.:
                                                                                                                                                                                                                                                                    MEDLINE
PUBMED
COMMENT
                                                                                                                                                                                                                                        JOURNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              FEATURES
                                                                                                                                                                           TITLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 (Dases I to 671)
Staten, T. Furuno, M., Kasukawa, T., Adachi, J., Bono, H., Kondo, S., Nikaido, I., Osato, N., Saito, R., Suzuki, H., Yamanaka, I., Kiyosawa, H., Yagi, K., Tomaru, Y., Hasegawa, Y., Nogami, A., Schonbach, C., Gojobori, T., Baldarelli, R., Hill, D.P., Bult, C., Hume, D.A., Quackenbush, J., Schriml, L.M., Kanapin, A., Matsuda, H., Batelov, S., Beisel, K.W., Blake, J.A., Bradt, D., Brusic, V., Chothia, C., Corbani, L.E., Cousins, S., Dalla, E., Dragani, T.A., Fletcher, C.F., Forrest, A., Frazer, K.S., Gaasterland, T., Gariboldi, M., Gissi, C., Godzik, A., Gough, J. Grimmond, S., Gustincich, S., Hirokawa, N., Jackson, I.J., Jarvis, E.D., Kanai, A., Kawaji, H., Kawasawa, Y., Kedzierski, R.M., King, B.L., Konagaya, A., Kurochkin, I.V., Lee, Y., Lenhard, B., Lyons, P.A., Maglott, D.R., Numata, K., Okido, T., Pavan, W.J., Pertca, G., Pesole, G., Petrovsky, N., Pillai, R., Pontius, J.U., Qi, D., Ramachandran, S., Ravesi, T., Red, D.J., Reid, J., Ring, B.Z., Ringwald, M., Sandelin, A., Schneider, C., Semple, C.A., Secou, M., Shimada, K., Sultana, R., Takenaka, Y., Taylor, M.S., Teasdale, R.D., Tomita, M., Verafol, L., Walle, C., Wilming, L., Wynshaw-Boris, A., Yanagisawa, M., Yang, I., Wang, L., Yuan, Z., Zavolan, M., Zhu, Y., Zimmer, A., Vanagisawa, M., Yang, I., Yang, I., Yang, I., Yang, I., Konno, H., Nakamura, M.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BY749488 RIKEN full-length enriched, B6-derived CD11 +ve dendritic cells Mus musculus cDNA clone F730001C01 5', mRNA sequence.
                                                                                                                                                                                                                                            184 CAAGTGCTCTCCTGGACGATAGCCGGGCCTCCATCTTCTTCTCAGTGGCTGTTTCATC 243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ProLeuAanTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeuThr 100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    TrpSerSerEuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAspThr 120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGluPheTyrIleGly 140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThrGlu 160
                                                                                                          ACCAGATGTGTCGTAACATATCGCAGCTCTCAAATTTCCGGGCAGAACTTACAGCCACAT 303
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CCTTTGAACTGGAAACATTATCAATCTAGTTGTTATTTTTTTCTCTACGACAACCCTTGACC 423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         regrearchadatrachercheachreacheachreachearchearachearnachen 483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           484 CAGGAAGAGCAGGAATTCCTTTTTCGCACANAACCTANAAGGAAAGAGTTTTATATTGGA 543
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         544 crdacadaccaddrigdrigdaddgricarcangcarddargardaracaccrrrcacada 603
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 671)
                                                                                                                                                                                                      GlnValLeuSerTrpThrIleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle 40
                                                                                                                                                                                                                                                                                                                                     ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGlnAsnLeuGlnProHis 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   61 ArgAsn1leLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCysCys 80
                                                                    MetAenSerThrLysSerProAlaSerHisHisThrGluArgGlyCysPheLysAsnSer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SerLeuSerPheTrpAspAlaGlyGluProAsn 171
      US-10-812-620-2 (1-214) x BY743813 (1-643)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BY749488.1 GI:27178916
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          BY749488
                                                                                                                                                                                                                                                                                                                                        41
                                                                                                                                                                                                      21
                                                                                                                                                                                                                                                                                                                                                                                                      244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       364
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         424
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          161
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        604
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            141
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT 13
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VERSION
KEYWORDS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            REFERENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AUTHORS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BY749488
```

셤 ò 원 상 셤 ઠે 셤 ઠે 임 ઠ 엄 ઠે 유 8 셤 δ 셤

```
BX516799 486 bp mRNA linear EST 27-JUN-2003
BX516799 NCI CGAP Mam6 Mus musculus cDNA clone IMAGp998G247650 ;
IMAGE:3158063, mRNA sequence.
/note="Organ: kidney; Vector: pOTB7; Site_1: XhoI; Site_2: BCoRI; CDNA made by oligo-dT priming. Directionally cloned into EcoRI/AnoI sites using the following 5' adaptor: GGCAGGG(G). Size-selected >500pp for average insert size 1.8kb. Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-CDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies)."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GluSerLeuSerPheTrpAspAlaGlyGluProAsnAsnIleValLeuValGluAspCys 179
                                                                                                                                                                                                                                                                                                                                            ThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValVallleAsp 119
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        11 CCTGGGCGTTAAAGTTTAAAGAACTGCTCAGCCATGGGGGCTCACCTGGTGGTGTTTATCAAC 474
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ThrginginginginpheleuPheArgThrLysProLysArgLysGiuPheTyrile 139
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       534
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GlyLeuThrAspGlnValValGluGlyGlnTrpGlnTrpValAspAspThrProPheThr 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                654
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AlaThrileArgAspSerSerAsnSerArgLysAsnTrpAsnAspIleProCysPheTyr 199
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThrThrThrLeu 99
                                                                                                                                                                                                                                                                                                                                                                                                                 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  59
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GlnValLeuSerTrpThrleAlaGlyAlaSerIleLeuPheLeuSerGlyCysPheIle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGln---AsnLeuGlnPro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1032
137
23
42
7
                                                                                                                                                                                          Length:
Matches:
Conservative:
Mismatches:
Indels:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ----SerMetProTrp 203
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | | | | ::: | | | | | AATTATATATCGGAATCGGTGAAATGG 741
                                                                                                                                                                                                                                                                                                                US-10-812-620-2 (1-214) x BE311916 (1-1032)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BX516799.1 GI:32294653
                                                                                                                                                                                        7.44e-70
735.50
76.56%
65.55%
62.38%
                                                                                                                                                                                                                               Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BX516799
                                                                                                                                                                               Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EST.
Mus
                                                                                                                                                                                                                                                                                                                                                   -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                180
                                                                                                                                                                                                                                                                                                                                                                                                                 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           475
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            535
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              160
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       80
                                                                                                                                                                                             ..
0
0
0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DEFINITION
                                                                                                                                                                              Alignment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ACCESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BX516799
LOCUS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     VERSION
KEYWORDS
SOURCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   RESULT 15
                                                                                                                                            ORIGIN
                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                          ઠ
                                                                                                                                                                                                                                                                                                                                                                                                                                               d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ద
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              qq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          요
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

Eukaryota; Metazoa; Chordata; Catarrhini; Hominidae; Homo.

I (bases 1 to 1032)

S NIH-MGC http://mgc.nci.nih.gov/

National Institutes of Health, Mammalian Gene Collection (MGC)

Upublished (1999)

Contact: Robert Strausberg, Ph.D.

Emall: Capaba: r@mall.nih.gov

Tissue Procurement: DCTP/DTP

CONA Library Preparation: Ling Hong/Rubin Laboratory

CONA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Incyte Genomics, Inc.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov

Plate: LLCM186 row: g column: 08

High quality sequence start: 24

High quality sequence stop: 717.

Location/Qualifisers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BE311916 1032 bp mRNA linear EST 26-OCT-2000 001143328FI NIH_MGC_14 Homo sapiens cDNA clone IMAGE:3507103 5',
                                                                                                                                                                                             363
                                                                                                                                                                                                                                                                                                                                                                 116
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  483
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    602
                                                                                                                     244 ACCAGATGTGTGGTAACATATCGCTGCTCTCAAATTTCCGGGCAGAACTTACAGCCACAT 303
                                                                                                                                                                                                                                                             423
                                                                                                                                                                                                                                                                                                                                                                                                                                    ValileAspThrGlnGluGluGlnGluPheLeuPheArgThrLysProLysArgLysGlu 136
                                                                                           9
                                                                                                                                                            73
                                                                                                                                                                                                                             16
                                                                                                                                                                                                                                                                                              96
                                                                                         ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGlnAsnLeuGlnProHis
                                                                                                                                                                                 484 ACAACCTTGACCTGGTCATCAAG-TTAAAGAATTGCTCAGACATGGGGGCTCACCTGGTG
                                                                                                                                                            61 ArgAsnIleLysGluLeuSerCysTyrSerGluAlaSer----------
                                                                                                                                                                                                                                                                                            LysAsnCysCysProLeuAsnTrpLysHisTyrGlnSerSerCysTyrPhePheSerThr
                                                                                                                                                                                                                                                                                                                                                                 ThrThrLeuThrTrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuVal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    543 GTTATCGACACACAGGAAGAGAGGAATTCCTTTTTCGCACAAAACCTAANAGGAAAGAG
                                                                                                                                                                                                                               -------GlySerVal
                                                                                                                                                                                                                                                               364 CAGAATCATTAGCAAAGTTTCTGGGCAATGTCTGAAGCCTTTCTCCTTTAGGTTCAGTC
                                                                                                                                                                                                                                                                                                                                424 AAGAATIGCIGICCITIGAACIGGAAACATIAICAAICIAGIIGIIGIIATITITITICICIACG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /mol_type="mmms"orprom/mol_type="mmms"orprom/mol_type="mmms"orprom/clone="mmdE:3507103"
/tissue_type="renal_cell_adenocarcinoma"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH_MGC_14"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /organism="Homo sapiens"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BE311916
BE311916.1 GI:9148643
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens (human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ProPheThr 159
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |||||||||
663 CCTTTCACA 671
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        mRNA sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EST
                                                                                                                                                                                                                                                                                                                                                                                                                                    117
                                                                                                                                                                                                                                                                                                                                                                 97
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        157
                                                                                         41
                                                                                                                                                                                                                             74
                                                                                                                                                                                                                                                                                              17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DEFINITION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 14
BE311916
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          REFERENCE
AUTHORS
TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FEATURES
```

```
윱
                                                                                      셤
                                                      ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /clone_lib="NCI_CGAP_Mam6"
/note="Organ: mammary; Vector: pCWV-SPORT6; Site 1: Sal1;
Site_2: Not1; Cloned unidirectionally. Primer: Oligo dT.
Library constructed by Life Technologies. Investigator
providing samples: Jeffrey Green, M.D., NIH"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CAAGTGCTCTCCTGGACGATAGCCGGGGCCTCCATCCTGTTTCTCAGTGGCTGTTTCATC 201
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ACCAGATGTGTGTGTAAACATATGGCAGGGCGTGAATTTCGGGGCAGAACTTACAGCCACAT 261
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AGAAATATAAGGAGCTTTCCTGCTACAGTGAGGCATCAGGTTCAGTCAAGAATTGCTGT 321
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           101 TrpSerSerSerLeuLysAsnCysSerAspMetGlyAlaHisLeuValValIleAspThr 120
                                                  1 (bases 1 to 486)
Heil,O., Ebert,L., Neubert,P., Peters,M., Radelof,U., Schneider,D. and Korn,B.
Mus musculus
Eukaryota, Metazoa, Chordata, Craniata, Vertebrata, Euteleostomi,
Mammalia, Eutheria, Rodentia, Sciurognathi, Muridae, Murinae, Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GlnValLeuSerTrpThr1leAlaGlyAlaSerIleLeuPheLeuSerGlyCysPhe1le 40
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ThrArgCysValValThrTyrArgSerSerGlnIleSerGlyGlnAsnLeuGlnProHis 60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ArgAsnIleLysGluLeuSerCysTyrSerGluAlaSerGlySerValLysAsnCysCys 80
                                                                                                                                                                                                                                                                                                                                                                                                          This clone is available royalty-free from RZPD; contact RZPD (clone@rzpd.de) for further information. Seq primer: SP6, Primer sequence: ATTTAGTGACACTATAG. Location/Qualifiers
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RZPD; IMAGD994247650.
RZPDIB; IMAGD994247650.
RZPDIB; I.M.A.G.E. cDNA Clone Collection;
Mouse UnigeneSet - RZPD2 (RZPDIB No.981)
http://www.rzpd.de/CloneCards/Cgib
bin/showibip.pl.cgi/response?libNo-981 Contact: Ina Rolfs
RZPD Deutsches Ressourcenzentrum fuer Genomforschung GmbH
Heubnerweg 6, D-14059 Berlin, Germany
Tel: +49 30 32659 111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /db xref="texon:10090"
/clone="IMAGp998G247650; IMAGE:3158063"
/sex="female, virgin"
/tissue_type="infiltrating ductal carcinoma"
/dev stage="5 months"
/lab_host="DH108"
                                                                                                              Mouse UnigeneSet - RZPD2
Unpublished (2003)
Contact: Ina Rolfs
Expb Douteches Ressourcenzentrum fuer Genomforschung
Im Neuenheimer Feld 580, D-69120 Heidelberg, Germany
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length:
Matches:
Conservative:
Mismatches:
Indels:

    .486
    /organism="Mus musculus"
/mol_type="mRNA"
    /strain="FVB/N"

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              US-10-812-620-2 (1-214) x BX516799 (1-486)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9.92e-70
730.00
100.00%
100.00%
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Percent Similarity:
Best Local Similarity:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Alignment Scores:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       142
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          61
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 262
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match:
DB:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Pred. No.:
ORGANISM
                                                      REFERENCE
AUTHORS
                                                                                                            TITLE
JOURNAL
COMMENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FEATURES
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ORIGIN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      중 점
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      셤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ጵ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ò
```

Search completed: June 9, 2005, 16:20:28 Job time : 3183 secs ON THE STATE OF TH